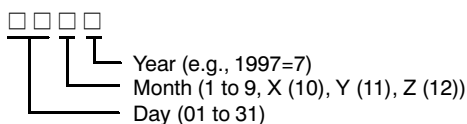


■ **CPU Rack**

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### Reading the production number



## CPU Rack (continued)

| Name                                                                                                                       | Specifications                                                                                                                                |                                                                                                                                                                                                                    | Standards      | Part number              |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------|--------------------------|
| <br>Memory Cards                          | Flash memory, 15 MB                                                                                                                           |                                                                                                                                                                                                                    | L, CE          | HMC-EF172<br>(See note.) |
|                                                                                                                            | Flash memory, 30 MB                                                                                                                           |                                                                                                                                                                                                                    |                | HMC-EF372<br>(See note.) |
|                                                                                                                            | Flash memory, 64 MB                                                                                                                           |                                                                                                                                                                                                                    |                | HMC-EF672<br>(See note.) |
|                                                                                                                            | Memory Card Adapter (for computer PCMCIA slot)                                                                                                |                                                                                                                                                                                                                    | CE             | HMC-AP001                |
| <br>Serial Communications Boards          | 2 × RS-232C ports, protocol macro function                                                                                                    |                                                                                                                                                                                                                    | U, C, N, L, CE | CS1W-SCB21-V1            |
|                                                                                                                            | 1 × RS-232C port + 1 × RS-422/485 port, protocol macro function                                                                               |                                                                                                                                                                                                                    |                | CS1W-SCB41-V1            |
| <br>Programming Consoles                  | An English Keyboard Sheet (CS1W-KS001-E) is required.<br>(Connects to peripheral port on CPU Unit only. Cannot be connected to RS-232C port.) |                                                                                                                                                                                                                    | U, C, N, CE    | CQM1-PRO01-E             |
|                                                                                                                            |                                                                                                                                               |                                                                                                                                                                                                                    |                | C200H-PRO27-E            |
| Programming Console Key Sheet                                                                                              | For C200H-PRO27 and CQM1-PRO01                                                                                                                |                                                                                                                                                                                                                    | CE             | CS1W-KS001-E             |
| <br>Programming Console Connecting Cables | Connects the CQM1-PRO01-E Programming Console. (Length: 0.05 m)                                                                               |                                                                                                                                                                                                                    |                | CS1W-CN114               |
|                                                                                                                            | Connects the C200H-PRO27-E Programming Console. (Length: 2.0 m)                                                                               |                                                                                                                                                                                                                    |                | CS1W-CN224               |
|                                                                                                                            | Connects the C200H-PRO27-E Programming Console. (Length: 6.0 m)                                                                               |                                                                                                                                                                                                                    |                | CS1W-CN624               |
| CX-Programmer                                                                                                              | For 1 license                                                                                                                                 | Windows-based Support Software for ladder programming on Windows 95, 98, Me, NT 4.0, 2000, or XP<br><br>(Connects to peripheral port on CPU Unit or RS-232C port on CPU Unit or Serial Communications Unit/Board.) | ---            | WS02-CXPC1-EV3           |
|                                                                                                                            | For 3 licenses                                                                                                                                |                                                                                                                                                                                                                    |                | WS02-CXPC1-EV3 L03       |
|                                                                                                                            | For 10 licenses                                                                                                                               |                                                                                                                                                                                                                    |                | WS02-CXPC1-EV3 L10       |
| Peripheral Device Connecting Cables (for peripheral port)                                                                  | Connects DOS computers, D-Sub 9-pin receptacle (Length: 0.1 m)<br>(Conversion cable to connect RS-232C cable to peripheral port)              |                                                                                                                                                                                                                    | CE             | CS1W-CN118               |
|                                                                                                                            | Peripheral bus or Host Link                                                                                                                   | Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)                                                                                                                                                                |                | CS1W-CN226               |
|                                                                                                                            |                                                                                                                                               | Connects DOS computers, D-Sub 9-pin (Length: 6.0 m)                                                                                                                                                                |                | CS1W-CN626               |
| Peripheral Device Connecting Cables (for RS-232C port)                                                                     | Peripheral bus or Host Link, antistatic                                                                                                       | Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)                                                                                                                                                                | ---            | XW2Z-200S-CV * CBL-202   |
|                                                                                                                            |                                                                                                                                               | Connects DOS computers, D-Sub 9-pin (Length: 5.0 m)                                                                                                                                                                |                | XW2Z-500S-CV             |
|                                                                                                                            | Host Link                                                                                                                                     | Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)                                                                                                                                                                |                | XW2Z-200S-V * CBL-202    |
|                                                                                                                            |                                                                                                                                               | Connects DOS computers, D-Sub 9-pin (Length: 5.0 m)                                                                                                                                                                |                | XW2Z-500S-V              |
| CX-Simulator                                                                                                               | Windows-based Support Software for simulating ladder program operation on Windows 95, 98, Me, NT 4.0, 2000, or XP                             |                                                                                                                                                                                                                    | ---            | WS02-SIMC1-E             |
| CX-Protocol                                                                                                                | Windows-based Protocol Creation Software for Windows 95, 98, Me, NT 4.0, 2000, or XP                                                          |                                                                                                                                                                                                                    | ---            | WS02-PSTC1-E             |
| Battery Set                                                                                                                | For CS1 Series only. (Install a replacement battery within 2 years of the production date.)                                                   |                                                                                                                                                                                                                    | L, CE          | CS1W-BAT01               |

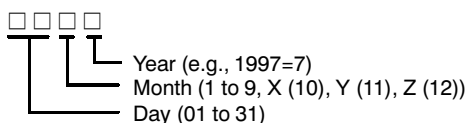
**Note:** 1. HMC-EF172/EF372/EF672 flash memory cannot be used with CS1G-CPU□□H, CS1H-CPU□□H, CJ1G-CPU□□H, or CJ1H-CPU□□H Modules predating lot number 020108 (i.e., manufactured before January 8, 2002) or with NS-7-series products predating lot number 0852 (i.e., manufactured before May 8, 2002) cannot be used together.

2. \* Indicates availability in Canada only.

## ■ Expansion Racks

(This table continues on the next page.)

### Reading the production number



## Expansion Racks (continued)

| Name                               | Specifications                                                                             | Standards | Part number   |
|------------------------------------|--------------------------------------------------------------------------------------------|-----------|---------------|
| CS1 to C200H I/O Connecting Cables | Connects C200H Expansion I/O Backplanes to CPU Backplanes or CS1 Expansion I/O Backplanes. | L, CE     | CS1W-CN311    |
|                                    |                                                                                            |           | CS1W-CN711    |
|                                    |                                                                                            |           | CS1W-CN221    |
|                                    |                                                                                            |           | CS1W-CN321    |
|                                    |                                                                                            |           | CS1W-CN521    |
|                                    |                                                                                            |           | CS1W-CN131    |
|                                    |                                                                                            |           | CS1W-CN131-B2 |
| C200H I/O Connecting Cables        | Connects C200H Expansion I/O Backplanes to other C200H Expansion I/O Backplanes.           | N, L, CE  | C200H-CN311   |
|                                    |                                                                                            |           | C200H-CN711   |
|                                    |                                                                                            |           | C200H-CN221   |
|                                    |                                                                                            | L, CE     | C200H-CN521   |
|                                    |                                                                                            |           | C200H-CN131   |

## ■ C200H Basic I/O Modules

| Name                                                                                                     | Specifications             | Mountable Racks |                           |                     |                         |                        | Bits allocated (CIO 0000 to CIO 0319) | Standards      | Part number  |
|----------------------------------------------------------------------------------------------------------|----------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|---------------------------------------|----------------|--------------|
|                                                                                                          |                            | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long distance Racks | SYSMAC BUS Slave Racks |                                       |                |              |
|  DC Input Modules      | 12 to 24 VDC, 8 inputs     | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L, CE | C200H-ID211  |
|                                                                                                          | 24 VDC, 16 inputs          | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-ID212  |
|  AC Input Modules     | 100 to 120 VAC, 8 inputs   | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L     | C200H-IA121  |
|                                                                                                          | 100 to 120 VAC, 16 inputs  | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-IA122  |
|                                                                                                          | 100 to 120 VAC, 16 inputs  | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | CE             | C200H-IA122V |
|                                                                                                          | 200 to 240 VAC, 8 inputs   | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L     | C200H-IA221  |
|                                                                                                          | 200 to 240 VAC, 16 inputs  | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-IA222  |
|                                                                                                          | 200 to 240 VAC, 16 inputs  | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | CE             | C200H-IA222V |
|  AC/DC Input Modules  | 12 to 24 VAC/VDC, 8 inputs | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L, CE | C200H-IM211  |
|                                                                                                          | 24 VAC/VDC, 16 inputs      | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-IM212  |
|  B7A Input Modules    | 16 inputs                  | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, CE       | C200H-B7A11  |
|                                                                                                          | 32 inputs                  | Yes             | Yes                       | Yes                 | No                      | No (See note 2.)       | 32                                    | U, C           | C200H-B7A12  |
|  Interrupt Input Unit | 12 to 24 VDC, 8 inputs     | Yes             | Yes (See note 1.)         | Yes (See note 1.)   | No (See note 1.)        | No                     | 16                                    | U, C, CE       | C200HS-INT01 |

(This table continues on the next page.)

- Note:**
1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.
  2. C200H-B7A12/02/21/22 are C200H Group-2 Modules.

## Basic I/O Modules

## C200H Basic I/O Modules (continued)

| Name                                                                                                             | Specifications                                                    | Mountable Racks |                           |                     |                         |                        | Bits allocated (CIO 0000 to CIO 0319) | Standards      | Part number  |
|------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|---------------------------------------|----------------|--------------|
|                                                                                                                  |                                                                   | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long distance Racks | SYSMAC BUS Slave Racks |                                       |                |              |
| Relay Bit Output Modules<br>    | 250 VAC/24 VDC, 2 A, 8 outputs max.                               | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N        | C200H-OC221  |
|                                                                                                                  | 250 VAC/24 VDC, 2 A, 12 outputs max.                              | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-OC222  |
|                                                                                                                  | 250 VAC/24 VDC, 2 A, 12 outputs max.                              | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | CE             | C200H-OC222N |
|                                                                                                                  | 250 VAC/24 VDC, 2 A, 16 outputs max.                              | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L     | C200H-OC225  |
|                                                                                                                  | 250 VAC/24 VDC, 2 A, 16 outputs max.                              | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | CE             | C200H-OC226N |
|                                                                                                                  | 250 VAC/24 VDC, 2 A, independent contacts, 5 outputs max.         | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L     | C200H-OC223  |
|                                                                                                                  | 250 VAC/24 VDC, 2 A, independent contacts, 8 outputs max.         | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-OC224  |
|                                                                                                                  | 250 VAC/24 VDC, 2 A, independent contacts, 8 outputs max.         | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | CE             | C200H-OC224N |
| Transistor Output Modules<br> | 12 to 48 VDC, 1 A, 8 sinking outputs                              | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L, CE | C200H-OD411  |
|                                                                                                                  | 24 VDC, 2.1 A, 8 sinking outputs                                  | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-OD213  |
|                                                                                                                  | 24 VDC, 0.8 A, 8 sourcing outputs, load short-circuit protection. | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L     | C200H-OD214  |
|                                                                                                                  | 5 to 24 VDC, 0.3 A, 8 sourcing outputs                            | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-OD216  |
|                                                                                                                  | 24 VDC, 0.3 A, 12 sinking outputs                                 | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, N, L, CE | C200H-OD211  |
|                                                                                                                  | 5 to 24 VDC, 0.3 A, 12 sourcing outputs                           | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-OD217  |
|                                                                                                                  | 24 VDC, 0.3 A, 16 sinking outputs                                 | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    |                | C200H-OD212  |
|                                                                                                                  | 24 VDC, 1 A, 16 sourcing outputs, load short-circuit protection.  | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | CE             | C200H-OD21A  |
| B7A Output Modules<br>        | 16 outputs                                                        | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                    | U, C, CE       | C200H-B7AO1  |
|                                                                                                                  | 32 outputs                                                        | Yes             | Yes                       | Yes                 | No                      | No (See note 2.)       | 32                                    | U, C           | C200H-B7AO2  |

(This table continues on the next page.)

- Note:**
1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.
  2. C200H-B7A12/02/21/22 are C200H Group-2 Modules.

## C200H Basic I/O Modules (continued)

| Name                                                                                                      | Specifications                        | Mountable Racks |                           |                     |                         |                        | Bits allocated<br>(CIO 0000 to CIO 0319) | Standards  | Part number  |
|-----------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|------------------------------------------|------------|--------------|
|                                                                                                           |                                       | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long distance Racks | SYSMAC BUS Slave Racks |                                          |            |              |
| Triac Output Modules<br> | 250 VAC, 1.2 A, 8 outputs             | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                       | CE         | C200H-OA223  |
|                                                                                                           | 250 VAC, 0.3 A, 12 outputs            | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                       |            | C200H-OA222V |
|                                                                                                           | 250 VAC, 0.5 A, 12 outputs            | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                       | U, C, N, L | C200H-OA224  |
| Analog Timer Unit<br>    | 4-point timer                         | Yes             | Yes                       | Yes                 | No                      | Yes                    | 16                                       | U, C       | C200H-TM001  |
|                                                                                                           | External Variable Resistor Connector: | ---             |                           |                     |                         |                        |                                          | ---        | C4K-CN223    |

- Note:**
1. Interrupt Input Modules can only be used to input interrupts on the CPU Rack. They will function as normal I/O Modules on other Racks.
  2. C200H-B7A12/02/21/22 are C200H Group-2 Modules.
  3. The C200H-ID001 (no-voltage contacts, 8 inputs, NPN) and C200H-ID002 (no-voltage contacts, 8 inputs, PNP) cannot be used.

## ■ C200H Group-2 High-density I/O Modules

| Name                                                                                                    | Specifications                                                    | Mountable Racks |                           |                     |                         |                        | Bits allocated<br>(CIO 0000 to CIO 0319) | Standards      | Part number |
|---------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|------------------------------------------|----------------|-------------|
|                                                                                                         |                                                                   | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |                                          |                |             |
| DC Input Modules<br> | 24 VDC, 32 inputs                                                 | Yes             | Yes                       | Yes                 | No                      | No                     | 32                                       | U, C, N, L, CE | C200H-ID216 |
|                                                                                                         | 24 VDC, 64 inputs                                                 | Yes             | Yes                       | Yes                 | No                      | No                     | 64                                       |                | C200H-ID217 |
|                                                                                                         | 24 VDC, 32 inputs, 6 mA                                           | Yes             | Yes                       | Yes                 | No                      | No                     | 32                                       | U, C, CE       | C200H-ID218 |
|                                                                                                         | 24 VDC, 64 inputs, 6 mA                                           | Yes             | Yes                       | Yes                 | No                      | No                     | 64                                       |                | C200H-ID219 |
|                                                                                                         | 12 VDC, 64 inputs                                                 | Yes             | Yes                       | Yes                 | No                      | No                     | 64                                       | U, C           | C200H-ID111 |
| Transistor Output Modules                                                                               | 16 mA/4.5 V to 100 mA/26.4 V, 32 sinking outputs                  | Yes             | Yes                       | Yes                 | No                      | No                     | 32                                       | U, C, N, L, CE | C200H-OD218 |
|                                                                                                         | 0.5 A/ 24 VDC, 32 sourcing outputs, load short-circuit protection | Yes             | Yes                       | Yes                 | No                      | No                     | 32                                       | U, C, CE       | C200H-OD21B |
|                                                                                                         | 16 mA/4.5 V to 100 mA/26.4 V, 64 sinking outputs                  | Yes             | Yes                       | Yes                 | No                      | No                     | 64                                       | U, C, N, L, CE | C200H-OD219 |
| B7A Input Modules                                                                                       | 32 inputs                                                         | Yes             | Yes                       | Yes                 | No                      | No (See note.)         | 32                                       | U, C           | C200H-B7A12 |
| B7A Output Modules                                                                                      | 32 outputs                                                        | Yes             | Yes                       | Yes                 | No                      | No (See note.)         | 32                                       |                | C200H-B7A02 |
| B7A I/O Modules                                                                                         | 16 inputs, 16 outputs                                             | Yes             | Yes                       | Yes                 | No                      | No (See note.)         | 16                                       |                | C200H-B7A21 |
|                                                                                                         | 32 inputs, 32 outputs                                             | Yes             | Yes                       | Yes                 | No                      | No (See note.)         | 32                                       |                | C200H-B7A22 |

(This table continues on the next page.)

**Note:** The C200H-B7A12/02/21/22 are C200H Group-2 Modules.

## High-Density I/O Modules

## ■ C200H Group-2 High-density I/O Modules

| Part                            | Connection                       |                     | Remarks                                                                                                                                   | Standards | Part number                       |
|---------------------------------|----------------------------------|---------------------|-------------------------------------------------------------------------------------------------------------------------------------------|-----------|-----------------------------------|
| Applicable connector            | Soldered<br>(included with Unit) |                     | From Fujitsu<br>Socket: FCN-361J040-AU<br>Connector bar:<br>FCN-360C040-J2                                                                | ---       | C500-CE404                        |
|                                 | Crimped                          |                     | From Fujitsu<br>Socket: FCN-363J040<br>Connector bar:<br>FCN-360C040-J2<br>Contacts: FCN-363J-AU                                          |           | C500-CE405                        |
|                                 | Pressure welded                  |                     | From Fujitsu:<br>FCN-367J040-AU                                                                                                           |           | C500-CE403                        |
| Terminal block connection parts | 1:1 connections                  | Special Cable       | For<br>CS1W-ID231/ID261/OD231/<br>OD232/OD261/OD262/MD2<br>61/ MD262 and<br>C200H-ID216/ID217/ID218/I<br>D219/ID111/OD218/OD21B/<br>OD219 |           | XW2Z-□□□B<br>(See note 1.)        |
|                                 |                                  | Terminal Block Unit |                                                                                                                                           |           | XW2B-40G4                         |
|                                 | 1:2 connections                  | Special Cable       |                                                                                                                                           |           | XW2B-40G5                         |
|                                 |                                  |                     |                                                                                                                                           |           | XW2D-40G6                         |
|                                 |                                  | Terminal Block Unit |                                                                                                                                           |           | XW2Z-□□□D<br>(See notes 1 and 2.) |
|                                 |                                  |                     |                                                                                                                                           |           | XW2B-20G4                         |
|                                 |                                  | XW2B-20G5           |                                                                                                                                           |           |                                   |
|                                 |                                  | XW2D-20G6           |                                                                                                                                           |           |                                   |
|                                 |                                  | XW2C-20G5-IN16      |                                                                                                                                           |           |                                   |

**Note:** 1. Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)  
2. The XW2Z-□□□D, CS1W-OD□□□, and C200H-OD□□□ cannot be connected. Only the inputs of the CS1W-MD□□□ can be connected.

## ■ CS1 High-density I/O Modules

| Name                  | Specifications                                      | Mountable Racks |                           |                     |                         |                        | Bits allocated (CIO 0000 to CIO 0319) | Standards       | Part number |
|-----------------------|-----------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|---------------------------------------|-----------------|-------------|
|                       |                                                     | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |                                       |                 |             |
| DC Input Modules      | 24 VDC, 16 inputs, 7 mA                             | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                    | UC, N, CE, CID2 | CS1W-ID211  |
|                       | 24 VDC, 32 inputs, 6 mA                             | Yes             | No                        | Yes                 | Yes                     | No                     | 32                                    |                 | CS1W-ID231  |
|                       | 24 VDC, 64 inputs, 6 mA                             | Yes             | No                        | Yes                 | Yes                     | No                     | 64                                    |                 | CS1W-ID261  |
|                       | 24 VDC, 96 inputs, approx. 5 mA                     | Yes             | No                        | Yes                 | Yes                     | No                     | 96                                    | U, C, N, L, CE  | CS1W-ID291  |
| AC Input Modules      | 100 to 120 VAC, 100 to 120 VDC, 16 inputs           | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                    | UC, N, CE, CID2 | CS1W-IA111  |
|                       | 200 to 240 VAC, 16 inputs                           | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                    |                 | CS1W-IA211  |
| Interrupt Input Unit  | 24 VDC, 16 inputs, 7 mA                             | Yes             | No                        | Yes (See note.)     | Yes (See note.)         | No                     | 16                                    | UC, N, CE, CID2 | CS1W-INT01  |
| High-speed Input Unit | 24 VDC, 16 inputs, 7 mA                             | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                    |                 | CS1W-IDP01  |
| Safety Relay Unit     | 24 VDC, 2 channels with 4 inputs each, 4 pts/common | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                    | U, C, CE        | CS1W-SF200  |

(This table continues on the next page.)

## CS1 High-density I/O Modules (continued)

| Name                                                                                                                      | Specifications                                                                           | Mountable Racks |                           |                     |                         |                        | Bits allocated<br>(CIO 0000 to CIO 0319) | Standards         | Part number |
|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|------------------------------------------|-------------------|-------------|
|                                                                                                                           |                                                                                          | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |                                          |                   |             |
| Relay Output Modules                                                                                                      | 250 VAC or 120 VDC, independent contacts, 8 outputs, 2 A                                 | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                       | UC, N, CE, CID2   | CS1W-OC201  |
|                                                                                                                           | 250 VAC or 120 VDC, 16 outputs, 2 A                                                      | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                       |                   | CS1W-OC211  |
| Transistor Output Modules<br>            | 12 to 24 VDC, 0.5 A, 16 sinking outputs                                                  | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                       | UC, N, CE, CID2   | CS1W-OD211  |
|                                                                                                                           | 24 VDC, 0.5 A, 16 sourcing outputs                                                       | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                       | U, C, N, CE       | CS1W-OD212  |
|                                                                                                                           | 12 to 24 VDC, 0.5 A, 32 sinking outputs                                                  | Yes             | No                        | Yes                 | Yes                     | No                     | 32                                       | U, C, N, CE, CID2 | CS1W-OD231  |
|                                                                                                                           | 24 VDC, 0.5 A, 32 sourcing outputs                                                       | Yes             | No                        | Yes                 | Yes                     | No                     | 32                                       | U, C, N, CE       | CS1W-OD232  |
|                                                                                                                           | 12 to 24 VDC, 0.3 A, 64 sinking outputs                                                  | Yes             | No                        | Yes                 | Yes                     | No                     | 64                                       | UC, N, CE, CID2   | CS1W-OD261  |
|                                                                                                                           | 24 VDC, 0.3 A, 64 sourcing outputs                                                       | Yes             | No                        | Yes                 | Yes                     | No                     | 64                                       |                   | CS1W-OD262  |
|                                                                                                                           | 12 to 24 VDC, 0.1 A, 96 sinking outputs                                                  | Yes             | No                        | Yes                 | Yes                     | No                     | 96                                       | U, C, N, L, CE    | CS1W-OD291  |
|                                                                                                                           | 12 to 24 VDC, 0.1 A, 96 sourcing outputs                                                 | Yes             | No                        | Yes                 | Yes                     | No                     | 96                                       |                   | CS1W-OD292  |
| Triac Output Unit                                                                                                         | 250 VAC, 1.2 A, 8 outputs                                                                | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                       | UC, N, CE         | CS1W-OA201  |
|                                                                                                                           | 250 VAC, 0.5 A, 16 outputs                                                               | Yes             | No                        | Yes                 | Yes                     | No                     | 16                                       |                   | CS1W-OA211  |
| DC Input/Transistor Output Modules<br> | 24 VDC, 6 mA, 32 inputs, 12 to 24 VDC, 0.3 A, 32 sinking outputs                         | Yes             | No                        | Yes                 | Yes                     | No                     | Inputs: 32<br>Outputs: 32                | UC, N, CE, CID2   | CS1W-MD261  |
|                                                                                                                           | 24 VDC, 6 mA, 32 inputs, 24 VDC, 0.3 A, 32 sourcing outputs                              | Yes             | No                        | Yes                 | Yes                     | No                     | Inputs: 32<br>Outputs: 32                | U, C, N, CE       | CS1W-MD262  |
|                                                                                                                           | 5 VDC, 3.5 mA, 32 inputs, 5 VDC, 3.5 mA, 32 outputs                                      | Yes             | No                        | Yes                 | Yes                     | No                     | Inputs: 32<br>Outputs: 32                | UC, N, CE         | CS1W-MD561  |
|                                                                                                                           | 24 VDC, approx. 5 A, 48 inputs, 12 to 24 VDC, 0.1 A, 48 outputs, sinking inputs/outputs  | Yes             | No                        | Yes                 | Yes                     | No                     | Inputs: 48<br>Outputs: 48                | U, C, N, L, CE    | CS1W-MD291  |
|                                                                                                                           | 24 VDC, approx. 5 A, 48 inputs, 12 to 24 VDC, 0.1 A, 48 outputs, sourcing inputs/outputs | Yes             | No                        | Yes                 | Yes                     | No                     | Inputs: 48<br>Outputs: 48                |                   | CS1W-MD292  |

**Note:** Interrupt input is not available when mounted on these Racks (i.e., used as normal I/O Unit).

## CPU Selection

### ■ Connectors for CS1 High-density I/O Modules

| Part                  | Connection                       |                     | Remarks                                                                                          | Standards | Part number                |
|-----------------------|----------------------------------|---------------------|--------------------------------------------------------------------------------------------------|-----------|----------------------------|
| Applicable connectors | Soldered<br>(included with Unit) |                     | From Fujitsu<br>Socket: FCN-361J056-AU<br>Connector bar:<br>FCN-360C056-J3                       | ---       | CS1W-CE561                 |
|                       | Crimped                          |                     | From Fujitsu<br>Socket: FCN-363J056<br>Connector bar:<br>FCN-360C056-J3<br>Contacts: FCN-363J-AU |           | CS1W-CE562                 |
|                       | Pressure welded                  |                     | From Fujitsu:<br>FCN-367J056-AU                                                                  |           | CS1W-CE563                 |
| Terminal block        | 1:1                              | Special Cable       | For<br>CS1W-ID291/OD291/OD292/<br>MD291/MD292                                                    |           | XW2Z-□□□H-1<br>(see note.) |
|                       |                                  | Terminal Block Unit |                                                                                                  |           | XW2B-60G4                  |
|                       | 1:2                              | Special Cable       |                                                                                                  |           | XW2B-60G5                  |
|                       |                                  | Terminal Block Unit |                                                                                                  |           | XW2Z-□□□H-2<br>(see note.) |
|                       |                                  |                     |                                                                                                  |           | XW2B-20G4                  |
|                       |                                  |                     |                                                                                                  |           | XW2B-20G5                  |
|                       | 1:3                              | Special Cable       |                                                                                                  |           | XW2D-20G6                  |
|                       |                                  |                     |                                                                                                  |           | XW2B-40G4                  |
|                       |                                  |                     |                                                                                                  |           | XW2B-40G5                  |
|                       |                                  |                     |                                                                                                  |           | XW2D-40G6                  |
|                       |                                  | Terminal Block Unit |                                                                                                  |           | XW2Z-□□□H-3<br>(see note.) |
|                       |                                  |                     |                                                                                                  |           | XW2B-20G4                  |
|                       |                                  |                     |                                                                                                  |           | XW2B-20G5                  |
|                       |                                  |                     |                                                                                                  |           | XW2D-20G6                  |

**Note:** Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)

### ■ C200H High-density I/O Modules Classified as Special I/O Modules

| Name                                                                                                 | Specifications                        | Mountable Racks |                           |                     |                         |                        | Unit No | Standards      | Part number        |
|------------------------------------------------------------------------------------------------------|---------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|---------|----------------|--------------------|
|                                                                                                      |                                       | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |         |                |                    |
|  DC Input Modules | 24 VDC, 32 inputs                     | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9  | U, C, N, L, CE | <b>C200H-ID215</b> |
| TTL Input Modules                                                                                    | 5 VDC, 32 inputs                      | Yes             | Yes                       | Yes                 | No                      | Yes                    |         |                | <b>C200H-ID501</b> |
| Transistor Output Modules                                                                            | 24 VDC, 32 sinking outputs            | Yes             | Yes                       | Yes                 | No                      | Yes                    |         |                | <b>C200H-OD215</b> |
| TTL Output Modules                                                                                   | 5 VDC, 32 sinking outputs             | Yes             | Yes                       | Yes                 | No                      | Yes                    |         |                | <b>C200H-OD501</b> |
| TTL I/O Modules                                                                                      | 5 VDC, 16 inputs, 16 sinking outputs  | Yes             | Yes                       | Yes                 | No                      | Yes                    |         |                | <b>C200H-MD501</b> |
| DC Input/Transistor Output Modules                                                                   | 24 VDC, 16 inputs, 16 sinking outputs | Yes             | Yes                       | Yes                 | No                      | Yes                    |         |                | <b>C200H-MD215</b> |
|                                                                                                      | 12 VDC, 16 inputs, 16 sinking outputs | Yes             | Yes                       | Yes                 | No                      | Yes                    |         | U, C, N, L     | <b>C200H-MD115</b> |

### ■ Connectors for C200H High-density I/O Modules

| Part                            | Connection                       | Remarks                                                                                                                      | Standards | Part number              |
|---------------------------------|----------------------------------|------------------------------------------------------------------------------------------------------------------------------|-----------|--------------------------|
| Applicable connectors           | Soldered<br>(included with Unit) | From Fujitsu<br>Socket: FCN-361J024-AU<br>Connector bar:<br>FCN-360C024-J2                                                   | ---       | C500-CE241               |
|                                 | Crimped                          | From Fujitsu<br>Socket: FCN-363J024<br>Connector bar:<br>FCN-360C024-J2<br>Contacts: FCN-363J-AU                             |           | C500-CE242               |
|                                 | Pressure welded                  | From Fujitsu:<br>FCN-367J024-AU/F                                                                                            |           | C500-CE243               |
| Terminal block connection parts | Special Cable                    | For<br>C200H-ID215/ID501/OD215<br>/ MD115/MD215<br><br>For<br>C200H-ID215/ID501/MD115<br>/ MD215/MD501<br>□□□ = cable length |           | XW2Z-□□□A<br>(See note.) |
|                                 | Terminal Block Connector         |                                                                                                                              |           | XW2B-20G4                |
|                                 |                                  |                                                                                                                              |           | XW2B-20G5                |
|                                 |                                  |                                                                                                                              |           | XW2D-20G6                |
|                                 |                                  |                                                                                                                              |           | XW2B-20G5-D              |
|                                 | XW2B-40G5-T                      |                                                                                                                              |           |                          |
|                                 | Special Cable                    | XW2Z-□□□A<br>(see note)                                                                                                      |           |                          |
|                                 | Terminal Block Connector         | XW2C-20G6-IN16                                                                                                               |           |                          |

**Note:** Refer to the XW2□ Connector-Terminal Block Conversion Unit catalog for details. (Square boxes indicate the cable length.)

## Special I/O Modules

## ■ C200H Special I/O Modules

| Name                                                                                                                                | Specifications                                                                                                                                               | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards | Part number |
|-------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|-----------|-------------|
|                                                                                                                                     |                                                                                                                                                              | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |           |             |
| <div>Temperature Control Modules</div> <div></div> | Thermocouple input, time-proportioning PID, or ON/OFF transistor output                                                                                      | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C, CE  | C200H-TC001 |
|                                                                                                                                     | Thermocouple input, time-proportioning PID, or ON/OFF voltage output                                                                                         | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TC002 |
|                                                                                                                                     | Thermocouple input, PID current output                                                                                                                       | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TC003 |
|                                                                                                                                     | Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF transistor output                                                                | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TC101 |
|                                                                                                                                     | Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF voltage output                                                                   | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TC102 |
|                                                                                                                                     | Temperature-resistance thermometer input, PID current output                                                                                                 | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TC103 |
| <div>Data Setting Console</div> <div></div>      | Used with Temperature Control Modules.<br><br>Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc. | ---             |                           |                     |                         |                        | ---      | ---       | C200H-DSC01 |
|                                                                                                                                     | Connecting Cable, 2 m                                                                                                                                        | ---             |                           |                     |                         |                        |          |           | C200H-CN225 |
|                                                                                                                                     | Connecting Cable, 4 m                                                                                                                                        | ---             |                           |                     |                         |                        |          |           | C200H-CN425 |

(This table continues on the next page.)

## C200H Special I/O Modules (continued)

| Name                                                                                                                       | Specifications                                                                                | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards | Part number |
|----------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|-----------|-------------|
|                                                                                                                            |                                                                                               | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |           |             |
| Heat/Cool Temperature Control Modules<br> | Thermocouple input, time-proportioning PID, or ON/OFF transistor output                       | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C, CE  | C200H-TV001 |
|                                                                                                                            | Thermocouple input, time-proportioning PID, or ON/OFF voltage output                          | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TV002 |
|                                                                                                                            | Thermocouple input, PID current output                                                        | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TV003 |
|                                                                                                                            | Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF transistor output | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TV101 |
|                                                                                                                            | Temperature-resistance thermometer input, time-proportioning PID, or ON/OFF voltage output    | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TV102 |
|                                                                                                                            | Temperature-resistance thermometer input, PID current output                                  | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TV103 |
| Temperature Sensor Modules<br>          | Thermocouple input, K/J selectable                                                            | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C      | C200H-TS001 |
|                                                                                                                            | Thermocouple input, K/L selectable                                                            | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TS002 |
|                                                                                                                            | Temperature-resistance thermometer, JPt 100                                                   | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TS101 |
|                                                                                                                            | Temperature-resistance thermometer, Pt 100                                                    | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-TS102 |

(This table continues on the next page.)

## Special I/O Modules

## C200H Special I/O Modules (continued)

| Name                                                                                                                          | Specifications                                                                                                                                       | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards | Part number |
|-------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|-----------|-------------|
|                                                                                                                               |                                                                                                                                                      | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |           |             |
| <div>PID Control Modules</div> <div></div>   | Voltage output/current input, time-proportioning PID, or ON/OFF transistor output                                                                    | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C, CE  | C200H-PID01 |
|                                                                                                                               | Voltage output/current input, time-proportioning PID, or ON/OFF voltage output                                                                       | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-PID02 |
|                                                                                                                               | Voltage output/current input, PID current output                                                                                                     | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-PID03 |
| <div>Data Setting Console</div> <div></div>  | Used with PID Control Modules.<br><br>Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc. | ---             |                           |                     |                         |                        | ---      | ---       | C200H-DSC01 |
|                                                                                                                               | Connecting Cable, 2 m                                                                                                                                | ---             |                           |                     |                         |                        |          |           | C200H-CN225 |
|                                                                                                                               | Connecting Cable, 4 m                                                                                                                                | ---             |                           |                     |                         |                        |          |           | C200H-CN425 |
| <div>Cam Positioner Unit</div> <div></div> | 48 cam outputs (16 external outputs and 32 internal outputs), Resolver speed: 20 μs (5 kHz)                                                          | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C      | C200H-CP114 |

(This table continues on the next page.)

## C200H Special I/O Modules (continued)

| Name                                                                                                                           | Specifications                                                                                                                                       | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards      | Part number |
|--------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|----------------|-------------|
|                                                                                                                                |                                                                                                                                                      | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |                |             |
| <div>Data Setting Console</div> <div></div>   | Used with Cam Positioner Unit.<br><br>Monitoring, setting, and changing present values, set points, alarm values, PID parameters, bank numbers, etc. | ---             |                           |                     |                         |                        | ---      | ---            | C200H-DSC01 |
|                                                                                                                                | Connecting Cable, 2 m                                                                                                                                | ---             |                           |                     |                         |                        |          |                | C200H-CN225 |
|                                                                                                                                | Connecting Cable, 4 m                                                                                                                                | ---             |                           |                     |                         |                        |          |                | C200H-CN425 |
| <div>ASCII Modules</div> <div></div>         | 24-Kbyte RAM, 2 RS-232C ports                                                                                                                        | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to F   | U, C, CE       | C200H-ASC02 |
|                                                                                                                                | 200-Kbyte RAM, 2 RS-232C ports                                                                                                                       | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |                | C200H-ASC11 |
|                                                                                                                                | 200-Kbyte RAM, RS-232C port, RS-422/485 port                                                                                                         | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |                | C200H-ASC21 |
|                                                                                                                                | 200-Kbyte RAM, 3 RS-232C ports (1 terminal only)                                                                                                     | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |                | C200H-ASC31 |
| <div>Analog Input Modules</div> <div></div> | 4 to 20 mA, 1 to 5/0 to 10 V (selectable), 4 inputs, 1/4,000 resolution                                                                              | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C, N, L     | C200H-AD001 |
|                                                                                                                                | 4 to 20 mA, 1 to 5/0 to 10 V/-10 to +10 V (selectable); 8 inputs; 1/4,000 resolution                                                                 | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to F   | U, C, N, L, CE | C200H-AD002 |
|                                                                                                                                | 4 to 20 mA, 1 to 5/0 to 10 V/-10 to +10 V (selectable); 8 inputs; 1/4,000 resolution                                                                 | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |                | C200H-AD003 |

(This table continues on the next page.)

## Special I/O Modules

### C200H Special I/O Modules (continued)

| Name                                                                                                       | Specifications                                                                      | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards      | Part number |
|------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|----------------|-------------|
|                                                                                                            |                                                                                     | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |                |             |
| Analog Output Modules<br> | 4 to 20 mA, 1 to 5/0 to 10 V (selectable); 2 outputs; 1/4,075 resolution            | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C, N, L     | C200H-DA001 |
|                                                                                                            | 4 to 20 mA, -10 to +10 V (selectable), 4 outputs; voltage: 1/8,190 current: 1/4,095 | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to F   | U, C, N, L, CE | C200H-DA002 |
|                                                                                                            | 1 to 5 V, -10 to +10 V (selectable), 8 outputs; 1/4,000 resolution                  | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |                | C200H-DA003 |
|                                                                                                            | 4 to 20 mA, 8 outputs; 1/4,000 resolution                                           | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |                | C200H-DA004 |
| Analog I/O Modules<br>  | 2 inputs (4 to 20 mA, 1 to 5 V, etc.)<br><br>2 outputs (4 to 20 mA, 1 to 5 V, etc.) | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |                | C200H-MAD01 |

(This table continues on the next page.)

## C200H Special I/O Modules (continued)

| Name                                                                                                                               | Specifications                                                            | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards | Part number    |
|------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|-----------|----------------|
|                                                                                                                                    |                                                                           | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |           |                |
| <div>High-speed Counter Modules</div> <div></div> | One-axis pulse input, counting rate: 50 kcps max.                         | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C, CE  | C200H-CT001-V1 |
|                                                                                                                                    | One-axis pulse input, counting rate: 75 kcps max., line driver compatible | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | C200H-CT002    |
|                                                                                                                                    | Two-axis pulse input, counting rate: 75 kcps max., line driver compatible | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to F   |           | C200H-CT021    |
|                                                                                                                                    | Solder terminal; 40p and a Connector Cover                                | ---             |                           |                     |                         |                        | ---      | ---       | C500-CE401     |
|                                                                                                                                    | Solderless terminal; 40p and a Connector Cover (Crimped)                  | ---             |                           |                     |                         |                        |          |           | C500-CE402     |
|                                                                                                                                    | Pressure welded terminal; 40p                                             | ---             |                           |                     |                         |                        |          |           | C500-CE403     |
|                                                                                                                                    | Solder terminal; 40p and a Connector Cover (Horizontal-type)              | ---             |                           |                     |                         |                        |          |           | C500-CE404     |
|                                                                                                                                    | Crimp-style terminal; 40p and a Connector Cover (Horizontal-type)         | ---             |                           |                     |                         |                        |          |           | C500-CE405     |

(This table continues on the next page.)

## Special I/O Modules

### C200H Special I/O Modules (continued)

| Name                                                                                                                         | Specifications                                                      | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards | Part number             |
|------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|-----------|-------------------------|
|                                                                                                                              |                                                                     | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |           |                         |
| <b>Motion Control Modules</b><br>           | G-language program-mable, two-axis analog outputs                   | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to F   | U, C, CE  | <b>C200H-MC221</b>      |
|                                                                                                                              | MC Support Software<br>IBM PC/AT or compat-ible                     | ---             |                           |                     |                         |                        | ---      | ---       | <b>CV500-ZN3AT1-E</b>   |
|                                                                                                                              | Connecting Cable: 3.3 m                                             | ---             |                           |                     |                         |                        |          |           | <b>CV500-CIF01</b>      |
|                                                                                                                              | Teaching Box                                                        | ---             |                           |                     |                         |                        |          | U, C, CE  | <b>CVM1-PRO01</b>       |
|                                                                                                                              | Connection cable for Teaching Box: 2 m long                         | ---             |                           |                     |                         |                        |          | CE        | <b>CV500-CN224</b>      |
|                                                                                                                              | Memory Pack                                                         | ---             |                           |                     |                         |                        |          | U, C, CE  | <b>CVM1-MP702</b>       |
|                                                                                                                              | Terminal Block Con-<br>version<br><br>Modulesim-<br>plifies wiring. | ---             |                           |                     |                         |                        |          | ---       | <b>XW2B-20J6-6</b>      |
|                                                                                                                              | Connecting Cable for Terminal Block Con-<br>version Unit            | ---             |                           |                     |                         |                        |          |           | <b>XW2Z-100J-F1</b>     |
| <b>Position Control Mod-<br/>ules</b><br> | One-axis pulse-train open-collec-<br>tor output                     | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to F   | U, C, CE  | <b>C200HW-NC113</b>     |
|                                                                                                                              | Two-axis pulse-train open-collec-<br>tor output                     | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | <b>C200HW-NC213</b>     |
|                                                                                                                              | Four-axis pulse-train open-collec-<br>tor output                    | Yes             | Yes                       | Yes                 | No                      | Yes                    |          |           | <b>C200HW-NC413</b>     |
|                                                                                                                              | NC Support Software (SYSMAC-NCT)                                    | ---             |                           |                     |                         |                        | ---      | ---       | <b>WS01-NCTF1-E</b>     |
|                                                                                                                              | Peripheral Port Con-<br>necting Cables for computer                 | ---             |                           |                     |                         |                        | ---      | CE        | <b>CS1W-CN226 (2 m)</b> |

(This table continues on the next page.)

## C200H Special I/O Modules (continued)

| Name                                                                                                                             | Specifications                                          | Mountable Racks                            |                           |                     |                         |                        | Unit No. | Standards | Part number      |
|----------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------|--------------------------------------------|---------------------------|---------------------|-------------------------|------------------------|----------|-----------|------------------|
|                                                                                                                                  |                                                         | CPU Rack                                   | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |           |                  |
| <div>Position Control Modules</div> <div></div> | Peripheral Port Connecting Cables for computer          | ---                                        |                           |                     |                         |                        | ---      | CE        | CS1W-CN626 (6 m) |
|                                                                                                                                  | RS-232C Port Connecting Cables for computer             |                                            |                           |                     |                         |                        |          | ---       |                  |
|                                                                                                                                  |                                                         | XW2Z-500S-CV (5 m)<br>NCT V1.11 or earlier |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  |                                                         | XW2Z-200S (2 m)<br>(See note 1.)           |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  | 1-axis Relay Unit for C200HW-NC113                      | XW2Z-500S (5 m)<br>(See note 1.)           |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  |                                                         | XW2B-20J6-1B                               |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  | 2-axis Relay Unit for C200HW-NC213/NC413                | XW2B-40J6-2B                               |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  |                                                         |                                            |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  | 1-axis U, H, M Connecting Cables for C200HW-NC113       | XW2Z-050J-A6 (0.5 m)                       |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  |                                                         | XW2Z-100J-A6 (1 m)                         |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  | 2-axis U, H, M Connecting Cables for C200HW-NC213/NC413 | XW2Z-050J-A7 (0.5 m)                       |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  |                                                         | XW2Z-100J-A7 (1 m)                         |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  | 1-axis UEP Connecting Cables for C200HW-NC113           | XW2Z-050J-A8 (0.5 m)                       |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  |                                                         | XW2Z-100J-A8 (1 m)                         |                           |                     |                         |                        |          |           |                  |
| 2-axis UEP Connecting Cables for C200HW-NC213/NC413                                                                              | XW2Z-050J-A9 (0.5 m)                                    |                                            |                           |                     |                         |                        |          |           |                  |
|                                                                                                                                  | XW2Z-100J-A9 (1 m)                                      |                                            |                           |                     |                         |                        |          |           |                  |

(This table continues on the next page.)

**Note** 1. A 25-pin to 9-pin adapter is required to be connected to a 9-pin, D-sub RS-232C connector on an IBM PC/AT or compatible.

## Special I/O Modules

## C200H Special I/O Modules (continued)

| Name                                                                                                                         | Specifications                                                     | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards      | Part number     |
|------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|----------------|-----------------|
|                                                                                                                              |                                                                    | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |                |                 |
| <br>ID Sensor Modules                       | Electromagnetic coupling                                           | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | U, C           | C200H-IDS01-V1  |
|                                                                                                                              | Microwave type                                                     | Yes             | Yes                       | Yes                 | No                      | Yes                    |          | ---            | C200H-IDS21     |
| <br>Fuzzy Logic Unit                        | Use with Fuzzy Support Software                                    | Yes             | Yes                       | Yes                 | No                      | Yes                    | 0 to 9   | N              | C200H-FZ001     |
|                                                                                                                              | Fuzzy Support Software (IBM PC/AT or compatible)                   | ---             |                           |                     |                         |                        | ---      | ---            | C500-SU981-E    |
| <br>DeviceNet Master Unit<br>(See note 1.) | DeviceNet Remote I/O Master, 300 bits max.                         | Yes             | Yes                       | Yes                 | No                      | No                     | 0 to F   | U, C, N, L, CE | C200HW-DRM21-V1 |
| <br>DeviceNet I/O Link Unit               | DeviceNet Remote I/O Slave, 64 bits max.                           | Yes             | Yes                       | Yes                 | No                      | No                     | 0 to F   | U, C, N, CE    | C200HW-DRT21    |
| <br>Profibus-DP Master Unit               | Profibus-DP Remote I/O Master, 30 words max.                       | Yes             | Yes                       | Yes                 | No                      | No                     | 0 to F   | CE             | C200HW-PRM21    |
| <br>Profibus-DP I/O Link Unit             | Profibus-DP Remote I/O Slave, 100 words in max. 100 words out max. | Yes             | Yes                       | Yes                 | No                      | No                     | 0 to F   | CE             | C200HW-PRT21    |
| <br>CompoBus/S Master Modules             | CompoBus/S Remote I/O, 256 bits max.                               | Yes             | Yes                       | Yes                 | No                      | No                     | 0 to F   | U, C, N, L, CE | C200HW-SRM21-V1 |
| <br>PC Link Unit<br>(See note 2.)         | PC Link, single level: 32 Modules, multilevel: 16 Modules          | Yes             | Yes                       | Yes                 | No                      | No                     | 0 to 9   | N, L, CE       | C200H-LK401     |

**Note** 1. The DeviceNet Slaves are allocated up to 2,048 I/O bits (100 words) in the DeviceNet Area.

2. PC Link Modules are allocated up to 1,024 bits (64 words) in the Link Area.

## ■ CS1 Special I/O Modules

| Name                                                                                                   | Specifications                                                                         | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards          | Part number   |
|--------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|--------------------|---------------|
|                                                                                                        |                                                                                        | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |                    |               |
| Customizable Counter Modules                                                                           | Pulse input: 2 pts Pulse output: 2 pts Contact input: 12 pts Contact output: 8 pts     | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 95  | U, C, CE           | CS1W-HCP22    |
|                                                                                                        | Pulse input: 2 pts Analog output: 2 pts Contact input: 12 pts Contact output: 8 pts    |                 |                           |                     |                         |                        |          |                    | CS1W-HCA22    |
|                                                                                                        | Contact input: 12 pts Contact output: 8 pts                                            |                 |                           |                     |                         |                        |          |                    | CS1W-HIO01    |
| ID Sensor Modules                                                                                      | Single head unit                                                                       | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 95  | U, CE              | CS1W-V600C11  |
|                                                                                                        | Double head unit                                                                       | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 94  | U, CE              | CS1W-V600C12  |
| Analog Input Modules                                                                                   | 4 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000  | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 95  | UC, N, L, CE, CID2 | CS1W-AD041-V1 |
|                                                                                                        | 8 inputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000  | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 95  | UC, N, L, CE, CID2 | CS1W-AD081-V1 |
| Analog Output Modules                                                                                  | 4 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000 |                 |                           |                     |                         |                        |          |                    | CS1W-DA041    |
|                                                                                                        | 8 outputs (1 to 5 V, 0 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA) Resolution: 1/4,000 |                 |                           |                     |                         |                        |          | U, C, N, L, CE     | CS1W-DA08V    |
|                                                                                                        | 8 outputs (4 to 20 mA) Resolution: 1/4,000                                             |                 |                           |                     |                         |                        |          |                    | CS1W-DA08C    |
| Analog I/O Unit<br> | 4 inputs (4 to 20 mA, 1 to 5 V, etc.)<br>4 outputs (1 to 5 V, 0 to 10 V, etc.)         |                 |                           |                     |                         |                        |          |                    | CS1W-MAD44    |

(This table continues on the next page.)

## Special I/O Module

### CS1 Special I/O Modules (continued)

| Name                                                               | Specifications                                                                              | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards    | Part number   |
|--------------------------------------------------------------------|---------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|--------------|---------------|
|                                                                    |                                                                                             | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |              |               |
| Process I/O Modules                                                |                                                                                             |                 |                           |                     |                         |                        |          |              |               |
| Isolated Thermocouple Input Unit                                   | 4 inputs, B, E, J, K, N, R, S, T ±80 mV                                                     | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 95  | UC, CE, CID2 | CS1W-PTS01-V1 |
| Isolated Temperature-resistance Thermometer Input Unit             | 4 inputs, Pt100, JPt                                                                        |                 |                           |                     |                         |                        |          |              | CS1W-PTS02    |
| Isolated Temperature-resistance Thermometer Input Unit (Ni508.4 Ω) | 4 inputs, Ni508.4Ω                                                                          |                 |                           |                     |                         |                        |          |              | CS1W-PTS03    |
| Isolated Two-wire Transmission Device Input Unit                   | 4 inputs, 4 to 20 mA, 1 to 5 V                                                              |                 |                           |                     |                         |                        |          |              | CS1W-PTW01    |
| Isolated DC Input Unit                                             | 4 inputs, 4 to 20 mA, 1 to 5 V, 0 to 5 V, ±5 V, 0 to 10 V, ±10 V                            |                 |                           |                     |                         |                        |          |              | CS1W-PDC01    |
| Isolated Pulse Input Unit                                          | 4 inputs                                                                                    |                 |                           |                     |                         |                        |          |              | CS1W-PPS01    |
| Isolated Control Output Unit                                       | 4 outputs, 4 to 20 mA, 1 to 5 V                                                             |                 |                           |                     |                         |                        |          |              | CS1W-PMV01    |
| Power Transducer Input Unit                                        | 8 inputs, 0 to 1 mA, ±1 mA                                                                  |                 |                           |                     |                         |                        |          |              | CS1W-PTR01    |
| 100-mV DC Input Unit                                               | 8 inputs, 0 to 100 mA, ±100 mV                                                              |                 |                           |                     |                         |                        |          |              | CS1W-PTR02    |
| Support Software                                                   | Setting tool software for the Processing I/O Modules, OS: Windows 95, 98, NT 4.0 (see note) |                 |                           |                     |                         |                        |          |              | ---           |

(This table continues on the next page.)

## CS1 Special I/O Modules (continued)

| Name                                                                                                     | Specifications                                        | Mountable Racks |                           |                     |                         |                        | Unit No. | Standards        | Part number        |
|----------------------------------------------------------------------------------------------------------|-------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|----------|------------------|--------------------|
|                                                                                                          |                                                       | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |          |                  |                    |
| High-speed Counter Modules                                                                               | Pulse input: 2 pts Counting speed: 500 kcps max.      | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 92  | U, C, CE         | CS1W-CT021         |
|                                                                                                          | Pulse input: 4 pts Counting speed: 500 kcps max.      |                 |                           |                     |                         |                        |          |                  | CS1W-CT041         |
|                                                                                                          | SSI encoder input: 2 pts counting speed: 1.5 mHz max. | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 94  | CE               | CS1W-CTS21         |
| Motion Control Modules  | 4 axes, analog outputs, G language                    | Yes             | No                        | Yes                 | Yes                     | No                     | 0 to 93  | U, C, CE         | CS1W-MC421         |
|                                                                                                          | 2 axes, analog outputs, G language                    |                 |                           |                     |                         |                        |          |                  | CS1W-MC221         |
| MC Support Software                                                                                      | Windows 95, 98, or NT                                 | ---             |                           |                     |                         |                        | ---      | ---              | WS02-MCTC1-EV2     |
| Computer Connecting Cables                                                                               | Peripheral port on CPU Unit                           | ---             |                           |                     |                         |                        |          | CE               | CS1W-CN226 (2 m)   |
|                                                                                                          |                                                       |                 |                           |                     |                         |                        |          | CS1W-CN626 (6 m) |                    |
|                                                                                                          | RS-232C port on CPU Unit                              |                 |                           |                     |                         |                        |          | ---              | XW2Z-200S-CV (2 m) |
|                                                                                                          |                                                       |                 | XW2Z-500S-CV (5 m)        |                     |                         |                        |          |                  |                    |
| Teaching Box                                                                                             |                                                       | ---             |                           |                     |                         |                        | ---      | U, C, CE         | CVM1-PRO01         |
| Teaching Box Connecting Cable (2 m)                                                                      |                                                       |                 |                           |                     |                         |                        |          | CE               | CV500-CN224        |
| Memory Pack                                                                                              |                                                       |                 |                           |                     |                         |                        |          | U, C, CE         | CVM1-MP702         |
| MC Terminal Block Conversion Unit for 2 Axes (simplifies wiring I/O connectors)                          |                                                       |                 |                           |                     |                         |                        |          | ---              | XW2B-20J6-6        |
| MC Terminal Block Conversion Unit for 4 Axes (simplifies wiring I/O connectors)                          |                                                       |                 |                           |                     |                         |                        |          |                  | XW2B-40J6-7        |
| MC Terminal Block Conversion Unit Cable                                                                  |                                                       |                 |                           |                     |                         |                        |          |                  | XW2Z-100J-F1       |

**Note:** Setting tool software for the Processing I/O Modules also supports CS1W-AD□□□, CS1WS-DA□□□, and CS1W-MAD44.

## CPU Bus Modules

## CS1 CPU Bus Modules (Continued)

| Name                            | Specifications                                                                    | Mountable Racks |                           |                     |                         |                        | Words allocated<br>(CIO 1500 to CIO 1899) | Unit No. | Standards          | Part number     |
|---------------------------------|-----------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|-------------------------------------------|----------|--------------------|-----------------|
|                                 |                                                                                   | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |                                           |          |                    |                 |
| Controller Link Modules         | Twisted pair                                                                      | Yes             | No                        | Yes                 | Yes                     | No                     | 25 words                                  | 0 to F   | UC, N, L, CE, CID2 | CS1W-CLK21-V1   |
|                                 | Optical ring (H-PCF cable)                                                        | Yes             | No                        | Yes                 | Yes                     | No                     | 25 words                                  |          |                    | CS1W-CLK12-V1   |
|                                 | Optical ring (GI cable)                                                           | Yes             | No                        | Yes                 | Yes                     | No                     | 25 words                                  |          |                    | CS1W-CLK52-V1   |
| Controller Link Support Board   | For PCI Bus (wire type), with Support Software                                    | ---             |                           |                     |                         |                        | ---                                       | ---      | CE                 | 3G8F7-CLK21-EV1 |
|                                 | For PCI Bus (H-PCF optical type), with Support Software                           | ---             |                           |                     |                         |                        | ---                                       |          |                    | 3G8F7-CLK12-EV1 |
|                                 | For PCI Bus (GI optical type)                                                     | ---             |                           |                     |                         |                        | ---                                       |          |                    | 3G8F7-CLK52-EV1 |
| SYSMAC LINK Modules             | Coaxial cable (5C-2V cable)                                                       | Yes             | No                        | Yes                 | Yes                     | No                     | 25 words                                  | 0 to F   | U, C, CE           | CS1W-SLK21      |
|                                 | Optical cable (H-PCF cable)                                                       |                 |                           |                     |                         |                        | 25 words                                  |          | U, C, N, CE        | CS1W-SLK11      |
| SYSMAC LINK Support Boards      | For PCI Bus (coaxial type), with Support Software                                 | ---             |                           |                     |                         |                        | ---                                       | ---      | CE                 | 3G8F7-SLK21-E   |
|                                 | For PCI Bus (H-PCF optical type), with Support Software                           | ---             |                           |                     |                         |                        | ---                                       |          |                    | 3G8F7-SLK11-E   |
| Serial Communications Unit      | Two RS-232C Ports                                                                 | Yes             | No                        | Yes                 | Yes                     | No                     | 25 words                                  | 0 to F   | U, C, N, L, CE     | CS1W-SCU21-V1   |
| RS-232C-RS-422A Conversion Unit | 1 RS-232C port and 1 RS-422A terminal block                                       | ---             |                           |                     |                         |                        | ---                                       | ---      | ---                | NT-AL001        |
| Ethernet Unit                   | 100Base-TX                                                                        | Yes             | No                        | Yes                 | Yes                     | No                     | 25 words                                  | 0 to F   | UC, CE, CID2       | CS1W-ETN21      |
| DeviceNet Unit                  | Functions as master and/or slave; allows control of 2,048 points max. per master. | Yes             | No                        | Yes                 | Yes                     | No                     | ---                                       | 0 to F   | U, C, CE           | CS1W-DRM21      |

(This table continues on the next page.)

## CS1 CPU Bus Modules (continued)

| Name                                                      | Specifications                                                                                                                                                       | Mountable Racks |                           |                     |                         |                        | Words allocated<br>(CIO 1500 to CIO 1899) | Unit No. | Standards | Part number     |
|-----------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------------|---------------------------|---------------------|-------------------------|------------------------|-------------------------------------------|----------|-----------|-----------------|
|                                                           |                                                                                                                                                                      | CPU Rack        | C200H Expansion I/O Racks | CS1 Expansion Racks | CS1 Long-distance Racks | SYSMAC BUS Slave Racks |                                           |          |           |                 |
| CX-Process                                                | For Loop Control Unit, Programming Tool and Monitor Tool software, OS for Tool: Windows 95, 98, NT 4.0, OS for Monitor: Windows NT 4.0 (License key sold separately) | ---             |                           |                     |                         |                        | ---                                       | ---      | ---       | WS02-LCTC1-E    |
| License Key for Monitor Software                          | Hardware key for Monitor software, with license                                                                                                                      | ---             |                           |                     |                         |                        | ---                                       | ---      | ---       | WS02-LCTK1-EL01 |
| Peripheral Device Connecting Cables (for peripheral port) | Connects DOS computers, D-Sub 9-pin receptacle (Length: 0.1 m) (Conversion cable to connect RS-232C cable to peripheral port)                                        | ---             |                           |                     |                         |                        | ---                                       | ---      | CE        | CS1W-CN118      |
|                                                           | Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)                                                                                     | ---             |                           |                     |                         |                        | ---                                       | ---      |           | CS1W-CN226      |
|                                                           | Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 6.0 m)                                                                                     | ---             |                           |                     |                         |                        | ---                                       | ---      |           | CS1W-CN626      |
| Peripheral Device Connecting Cables (for RS-232C port)    | Peripheral bus or Host Link, Connects DOS computers, D-Sub 9-pin (Length: 2.0 m)                                                                                     | ---             |                           |                     |                         |                        | ---                                       | ---      | ---       | C200H-CN229-EU  |
|                                                           |                                                                                                                                                                      |                 |                           |                     |                         |                        |                                           |          |           | CBL-202*        |
| USB to Serial 9-pin Adapter                               | Converts PC USB port to a PC serial 9-pin port for use with Omron serial cables                                                                                      | ---             |                           |                     |                         |                        | ---                                       | ---      | ---       | CS1W-C1F31      |

\* Available in Canada only.

## DeviceNet

### ■ DeviceNet Configurator

| Name                   | Specifications                                       | Standards | Part number            |
|------------------------|------------------------------------------------------|-----------|------------------------|
| DeviceNet Configurator | Software only (Windows 95, 98, NT 4.0, or 2000)      | ---       | <b>WS02-CFDC1-E</b>    |
|                        | ISA board with software (Windows 95, 98, or NT 4.0)  | ---       | <b>3G8F5-DRM21-E</b>   |
|                        | PC card with software (Windows 95, 98, ME, 2000, XP) |           | <b>3G8E2-DRM21-EV1</b> |

### ■ Setting and Monitoring Software

| Name      | Specifications | Standards | Part number        |
|-----------|----------------|-----------|--------------------|
| NX-Server | DDE edition    | ---       | <b>WS02-NXD1-E</b> |

### ■ DeviceNet Slaves

| Slave                           | Specifications                                                                                               | Standards | Part number            |
|---------------------------------|--------------------------------------------------------------------------------------------------------------|-----------|------------------------|
| Programmable Slaves             | Controller with SYSMAC CPM2C CPU<br>No. of remote I/O link points: 1,024 max.<br>Provides CompoBus/S Master. | U, C, CE  | <b>CPM2C-S100C-DRT</b> |
|                                 | 4 transistor outputs (sinking)<br>4 transistor outputs (sourcing)                                            |           | <b>CPM2C-S110C-DRT</b> |
| I/O Link Modules                | 512 internal inputs/512 internal outputs (between CS1 or C200HX/HG/HE PLC and Master)                        | U, C, CE  | <b>C200HW-DRT21</b>    |
|                                 | 16 internal inputs/16 internal outputs (between CQM1/CQM1H PLC and Master)                                   |           | <b>CQM1-DRT21</b>      |
|                                 | 32 internal inputs/32 internal outputs (between CPM1A/CPM2A PLC and Master)                                  |           | <b>CPM1A-DRT21</b>     |
| Remote Transistor I/O Terminals | 8 inputs (NPN, + common)                                                                                     |           | <b>DRT1-ID08</b>       |
|                                 | 8 inputs (PNP, - common)                                                                                     |           | <b>DRT1-ID08-1</b>     |
|                                 | 8 outputs (NPN, - common)                                                                                    |           | <b>DRT1-OD08</b>       |
|                                 | 8 outputs (PNP, + common)                                                                                    |           | <b>DRT1-OD08-1</b>     |
|                                 | 16 inputs (NPN, + common)                                                                                    |           | <b>DRT1-ID16</b>       |
|                                 | 16 inputs (PNP, - common)                                                                                    |           | <b>DRT1-ID16-1</b>     |
|                                 | 16 outputs (NPN, - common)                                                                                   |           | <b>DRT1-OD16</b>       |
|                                 | 16 outputs (PNP, + common)                                                                                   |           | <b>DRT1-OD16-1</b>     |
|                                 | 8 input points (NPN with + common)<br>8 input points (NPN with - common)                                     |           | <b>DRT1-MD16</b>       |

(This table continues on the next page.)

## DeviceNet Slaves (continued)

| Slave                                                      |                                                                  | Specifications                                                | Standards | Part number   |
|------------------------------------------------------------|------------------------------------------------------------------|---------------------------------------------------------------|-----------|---------------|
| Remote Transistor I/O Terminals with 3-tier Terminal Block | Common power supply for communications and internal circuits     | 16 input points (NPN with + common)                           | ---       | DRT1-ID16TA   |
|                                                            |                                                                  | 16 input points (PNP with - common)                           |           | DRT1-ID16TA-1 |
|                                                            |                                                                  | 8 input points (NPN with + common)                            |           | DRT1-MD16TA   |
|                                                            |                                                                  | 8 output points (NPN with - common)                           |           |               |
|                                                            |                                                                  | 8 input points (PNP with - common)                            |           | DRT1-MD16TA-1 |
|                                                            |                                                                  | 8 output points (PNP with + common)                           |           |               |
|                                                            |                                                                  | 16 output points (NPN with - common)                          |           | DRT1-OD16TA   |
|                                                            |                                                                  | 16 output points (PNP with + common)                          |           | DRT1-OD16TA-1 |
|                                                            | Separate power supplies for communications and internal circuits | 16 inputs (NPN, + common)                                     | CE        | DRT1-ID16T    |
|                                                            |                                                                  | 16 inputs (PNP, - common)                                     |           | DRT1-ID16T-1  |
|                                                            |                                                                  | 16 I/O (NPN, - common)                                        |           | DRT1-MD16T    |
|                                                            |                                                                  | 16 I/O (PNP, + common)                                        |           | DRT1-MD16T-1  |
|                                                            |                                                                  | 16 outputs (NPN, - common)                                    |           | DRT1-OD16T    |
|                                                            |                                                                  | 16 outputs (PNP, + common)                                    |           | DRT1-OD16T-1  |
|                                                            |                                                                  |                                                               |           |               |
| Remote Transistor I/O Terminals with Connectors            |                                                                  | 32 inputs (NPN, + common)                                     |           | DRT1-ID32ML   |
|                                                            |                                                                  | 32 inputs (PNP, - common)                                     |           | DRT1-ID32ML-1 |
|                                                            |                                                                  | 32 outputs (NPN, - common)                                    |           | DRT1-OD32ML   |
|                                                            |                                                                  | 32 outputs (PNP, + common)                                    |           | DRT1-OD32ML-1 |
|                                                            |                                                                  | 32 I/O (NPN, - common)                                        |           | DRT1-MD32ML   |
|                                                            |                                                                  | 32 I/O (PNP, + common)                                        |           | DRT1-MD32ML-1 |
|                                                            |                                                                  |                                                               |           |               |
|                                                            | Mounting Bracket B                                               | ---                                                           | ---       | SRT2-ATT02    |
| Remote Adapters                                            |                                                                  | 16 inputs (NPN, + common)                                     | U, C, CE  | DRT1-ID16X    |
|                                                            |                                                                  | 16 inputs (PNP, - common)                                     |           | DRT1-ID16X-1  |
|                                                            |                                                                  | 16 outputs (NPN, - common)                                    |           | DRT1-OD16X    |
|                                                            |                                                                  | 16 outputs (PNP, + common)                                    |           | DRT1-OD16X-1  |
|                                                            | Flat Cable Connectors with MIL Plugs                             | Straight DIP pins                                             | ---       | XG4A-2031     |
|                                                            |                                                                  | L-shaped DIP pins                                             |           | XG4A-2034     |
| DeviceNet Fiber Amplifier Sensor Communications Unit       |                                                                  | Connects to up to 16 Fiber Amplifier Modules for the E3X-DA-N |           | E3X-DRT21     |
|                                                            |                                                                  | Fiber Amplifier Unit (See note 1.)                            |           | E3X-DA6-P     |
|                                                            |                                                                  | Reduced-wiring Connector (See note 1.)                        |           | E3X-CN02      |
|                                                            |                                                                  | Terminal Unit                                                 |           | E39-TM1       |
|                                                            |                                                                  |                                                               |           |               |
| Sensor Terminals (for 2-wire Sensors)                      |                                                                  | 8 sensor I/O points (NPN), 2 inputs per Sensor                |           | DRT1-HD16S    |
|                                                            |                                                                  | 8 sensor I/O points (PNP)                                     |           | DRT1-ND16S    |
|                                                            | Cable Connectors                                                 | 0.3 to 0.5 mm <sup>2</sup> (See note 2.)                      |           | XS8A-0441     |
|                                                            |                                                                  | 0.14 to 0.2 mm <sup>2</sup> (See note 2.)                     |           | XS8A-0442     |

(This table continues on the next page.)

## DeviceNet Slaves

### DeviceNet Slaves (continued)

| Slave                                              | Specifications                                           |                                                              | Standards | Part number   |            |
|----------------------------------------------------|----------------------------------------------------------|--------------------------------------------------------------|-----------|---------------|------------|
| Water-resistant Terminals (transistor I/O)         | 4 inputs (NPN, + common)                                 |                                                              | CE        | DRT1-ID04CL   |            |
|                                                    | 4 inputs (PNP, - common)                                 |                                                              |           | DRT1-ID04CL-1 |            |
|                                                    | 8 inputs (NPN, + common)                                 |                                                              |           | DRT1-ID08CL   |            |
|                                                    | 8 inputs (PNP, - common)                                 |                                                              |           | DRT1-ID08CL-1 |            |
|                                                    | 4 outputs (NPN, - common)                                |                                                              |           | DRT1-OD04CL   |            |
|                                                    | 4 outputs (PNP, + common)                                |                                                              |           | DRT1-OD04CL-1 |            |
|                                                    | 8 outputs (NPN, - common)                                |                                                              |           | DRT1-OD08CL   |            |
|                                                    | 8 outputs (PNP, + common)                                |                                                              |           | DRT1-OD08CL-1 |            |
| Environmentally Resistant Transistor I/O Terminals | 8 inputs (NPN, + common)                                 |                                                              |           | DRT1-ID08C    |            |
|                                                    | 16 inputs (NPN, + common)                                |                                                              |           | DRT1-HD16C    |            |
|                                                    | 16 inputs (PNP, - common)                                |                                                              |           | DRT1-HD16C-1  |            |
|                                                    | 8 outputs (NPN, - common)                                |                                                              |           | DRT1-OD08C    |            |
|                                                    | 16 outputs (NPN, - common)                               |                                                              |           | DRT1-WD16C    |            |
|                                                    | 16 outputs (PNP, + common)                               |                                                              |           | DRT1-WD16C-1  |            |
|                                                    | 8 inputs/8 outputs (NPN, + common/- common)              |                                                              |           | DRT1-MD16C    |            |
|                                                    | 8 inputs/8 outputs (PNP, - common/+ common)              |                                                              |           | DRT1-MD16C-1  |            |
| B7AC Interface Terminal                            | 3 sets of 10 inputs (branching to 3 B7AC Link Terminals) |                                                              | U, C, CE  | DRT1-B7AC     |            |
| Analog Input Terminals                             | 2 or 4 inputs (2 or 4 words) (voltage or current)        |                                                              | CE        | DRT1-AD04     |            |
|                                                    | 4 inputs (4 words) (voltage or current)                  |                                                              |           | DRT1-AD04H    |            |
| Analog Output Terminals                            | 2 outputs (2 words)                                      | Current: 0 to 20 mA, 4 to 20 mA                              |           |               | DRT1-DA02  |
|                                                    |                                                          | Voltage: 1 to 5 V, 0 to 10 V, - 10 to 10 V                   |           |               |            |
| Temperature Input Terminals                        | 4 inputs (4 words)                                       | Inputs: R, S, K1, K2, J1, J2, T, E, B, N, L1, L2, U, W, PLII |           |               | DRT1-TS04T |
|                                                    |                                                          | Inputs: Pt100, JPt100                                        |           |               | DRT1-TS04P |
| RS-232C Unit                                       | Two RS-232C ports, 16 inputs (signal status)             |                                                              | U, C, CE  | DRT1-232C     |            |

## ■ Smart DeviceNet I/O Terminals

### Basic Modules

| Product                                                                                                   | Specifications          |            | Standards | Part number   |
|-----------------------------------------------------------------------------------------------------------|-------------------------|------------|-----------|---------------|
| Smart I/O basic Modules automatically collect network status and connected device performance information | 16 inputs               | NPN        | cULus, CE | DRT2-ID16     |
|                                                                                                           | 16 inputs               | PNP        |           | DRT2-ID16-1   |
|                                                                                                           | 16 outputs              | NPN        |           | DRT2-OD16     |
|                                                                                                           | 16 outputs              | PNP        |           | DRT2-OD16-1   |
| 3-tier Terminal Block Types                                                                               | 16 inputs               | NPN        |           | DRT2-ID16TA   |
|                                                                                                           | 16 inputs               | PNP        |           | DRT2-ID16TA-1 |
|                                                                                                           | 16 outputs              | NPN        |           | DRT2-OD16TA   |
|                                                                                                           | 16 outputs              | PNP        |           | DRT2-OD16TA-1 |
|                                                                                                           | 8 inputs<br>8 outputs   | NPN<br>NPN |           | DRT2-MD16TA   |
|                                                                                                           | 8 inputs<br>8 outputs   | PNP<br>PNP |           | DRT2-MD16TA-1 |
|                                                                                                           | 32 inputs               | NPN        |           | DRT2-ID32ML   |
|                                                                                                           | 32 inputs               | PNP        |           | DRT2-ID32ML-1 |
| MIL Connector Terminal Block Types                                                                        | 32 outputs              | NPN        |           | DRT2-OD32ML   |
|                                                                                                           | 32 outputs              | PNP        |           | DRT2-OD32ML-1 |
|                                                                                                           | 16 inputs<br>16 outputs | NPN<br>NPN |           | DRT2-MD32ML   |
|                                                                                                           | 16 inputs<br>16 outputs | PNP<br>PNP |           | DRT2-MD32ML-1 |
|                                                                                                           | 16 relay outputs        |            |           | DRT2-ROS16    |
|                                                                                                           |                         |            |           |               |

### Expansion Modules

| Product                                                                                        | Specifications |     | Standards | Part number |
|------------------------------------------------------------------------------------------------|----------------|-----|-----------|-------------|
| Smart expansion I/O Modules provide mix and match flexibility in distributed I/O configuration | 8 inputs       | NPN | cULus, CE | XWT-ID08    |
|                                                                                                | 8 inputs       | PNP |           | XWT-ID08-1  |
|                                                                                                | 8 outputs      | NPN |           | XWT-OD08    |
|                                                                                                | 8 outputs      | PNP |           | XWT-OD08-1  |
|                                                                                                | 16 inputs      | NPN |           | XWT-ID16    |
|                                                                                                | 16 inputs      | PNP |           | XWT-ID16-1  |
|                                                                                                | 16 outputs     | NPN |           | XWT-OD16    |
|                                                                                                | 16 outputs     | PNP |           | XWT-OD16-1  |

### Analog I/O Terminal

| Product                | Specifications                                                                |                                                            | Standards           | Part number |
|------------------------|-------------------------------------------------------------------------------|------------------------------------------------------------|---------------------|-------------|
| Analog Input Terminal  | 4 inputs (0 to 5 V, 1 to 5 V, 0 to 10 V, $\pm 10$ V, 0 to 20 mA, 4 to 20 mA)  | Resolution: 12 bit; 1/6000; 4 ms max./4 pt conversion time | cULus, CE, CL1 Div2 | DRT2-AD04   |
| Analog Output Terminal | 2 outputs (0 to 5 V, 1 to 5 V, 0 to 10 V, $\pm 10$ V, 0 to 20 mA, 4 to 20 mA) | Resolution: 12 bit; 6000; 2 ms/pt conversion time          |                     | DDRT2-DA02  |

## DeviceNet Enhanced Products

## IP67 Rated Transistor Terminals with M12 Connectors

| Product                                             | Specifications | Standards | Part number  |
|-----------------------------------------------------|----------------|-----------|--------------|
| Terminals with IP67-rated water-washdown resistance | 16 inputs NPN  | cULus, CE | DRT2-HD16C   |
|                                                     | 16 inputs PNP  |           | DRT2-HD16C-1 |
|                                                     | 8 inputs NPN   |           | DRT2-ID08C   |
|                                                     | 8 inputs PNP   |           | DRT2-ID08C-1 |
|                                                     | 8 outputs NPN  |           | DRT2-OD08C   |
|                                                     | 8 outputs PNP  |           | DRT2-OD08C-1 |

## ■ DeviceNet Enhanced Products

| Product                                                                       | Specifications                                                                                                                               | Standards   | Part number                           |
|-------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------|-------------|---------------------------------------|
| Vision sensors                                                                | Single camera system                                                                                                                         | CE          | F150-C10E-2-DRT                       |
|                                                                               | Two camera system                                                                                                                            | CE          | F150-C10E-3-DRT                       |
| Operator interface terminal adapter for NT31/NT631 touch screens              | Combined with CS1 slave, up to 15 terminals/network; with CJ1 slave, up to 41 terminals/network                                              | cULus, CE   | NT-DRT21                              |
| Communications module for fiber-optic sensor block                            | Up to 16 E3X-DA-N amplifiers form a wire saving sensor input slave block                                                                     | cRUus       | E3X-DRT21                             |
| Temperature/process controllers, single loop, 1/8 DIN                         | Controller with LED display; requires plug-in control output modules; to use a heater burnout alarm, order a current transformer             | RU, CSA, CE | E5EK-AA2-DRT21                        |
| Multi-zone temperature controller, 8 loops, optional display unit             | Heating mode, voltage output, heater open circuit Thermo-couple RTD                                                                          | CE          | E5EZ-8AQHD1TCB-V2<br>E5ZE-8AQHD1PB-V2 |
|                                                                               | Heating mode, voltage output, Thermo-couple RTD                                                                                              | CE          | E5EZ-8AQAD1TCB-V2<br>E5ZE-8AQAD1PB-V2 |
|                                                                               | Heating mode, voltage output, Thermo-couple RTD                                                                                              | CE          | E5EZ-8ACAD1TCB-V2<br>E5ZE-8ACAD1PB-V2 |
|                                                                               | Heating mode, voltage output, heater open circuit Thermo-couple RTD                                                                          | CE          | E5EZ-8VQHD1TCB-V2<br>E5ZE-8VQHD1PB-V2 |
|                                                                               | Heating mode, voltage output, Thermo-couple RTD                                                                                              | CE          | E5EZ-8VQAD1TCB-V2<br>E5ZE-8VQAD1PB-V2 |
|                                                                               | Heating mode, voltage output, Thermo-couple RTD                                                                                              | CE          | E5EZ-8VCAD1TCB-V2<br>E5ZE-8VCAD1PB-V2 |
| Communications module for multi-loop (2 to 32) plug-in temperature controller | Set parameters and monitor status via DeviceNet for all loops                                                                                | cRUus, CE   | E5EK-AA2-DRT21                        |
| Intelligent flag ID system                                                    | Set addresses and monitor work-in-process based on unique ID via DeviceNet: reads 24 bits of data max.: writes 16 bits of data max.          | cRUus, CE   | V600-HAM42-DRT                        |
|                                                                               | M12 threaded sensing head                                                                                                                    | -           | V600-HS51                             |
|                                                                               | 30.5 x 18 x 10 mm head                                                                                                                       | -           | V600-HS61                             |
|                                                                               | 53 x 50 x 23 mm head                                                                                                                         | -           | V600-HS63                             |
|                                                                               | 100 x 100 x 30 mm head                                                                                                                       | -           | V600-HS67                             |
| AC inverter, MV-series adapter                                                | Monitor Run/Stop and operating conditions and make changes in set values from a PLC via DeviceNet using this adapter for all 3G3MV inverters | RU, CSA, CE | 3G3MV-PDRT2                           |
| AC inverter, G5-series adapter                                                | Monitor Run/Stop and operating conditions and make changes in set values from a PLC via DeviceNet using this adapter for all G5 inverters    | cRUus       | SI-N1                                 |
| AC inverter, RV-series adapter                                                | Monitor Run/Stop and operating conditions and make changes in set values from a PLC via DeviceNet using this adapter for all RV inverters    | cRUus       | 3G3RV-PDRT2                           |

(This table continues on the next page.)

## DeviceNet Enhanced Products (continued)

| Product                                                                | Specifications                                                                                                                                                                                                             | Standards | Part number             |
|------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-----------|-------------------------|
| Servo drive, W-series adapter                                          | Communicate positioning commands, drive parameters, positioning data, motor characteristics etc, between the W-series servo and a DeviceNet master. Commands received via DeviceNet are output to the W-series servo drive | cULus, CE | <b>R88A-NCW152-DRT</b>  |
| High-Density Temperature Controller                                    | DeviceNet-compatible 8-loop Temperature Controller                                                                                                                                                                         | ---       | <b>E5ZE-8□D1-□B-V2</b>  |
| Multi-function Compact Inverter DeviceNet Communications Unit          | DeviceNet Communications Unit for the 3G3MV AC Inverters                                                                                                                                                                   | ---       | <b>3G3MV-PDRT1-SINV</b> |
| High-Function General-purpose Inverter DeviceNet Communications Module | DeviceNet Communications Unit for the 3G3RV and 3G3FV AC Inverters                                                                                                                                                         | ---       | <b>3G3FV-PDRT1-SIN</b>  |
| Vision Sensor Controller                                               | DeviceNet-compatible F150-3 Vision System                                                                                                                                                                                  | ---       | <b>F150-C10V3-DRT</b>   |
| Super-compact Signal Converter Bases                                   | DeviceNet-compatible Bases                                                                                                                                                                                                 | ---       | <b>K3FM-BI□/BO□</b>     |
| DeviceNet Wireless Modules                                             | DeviceNet Wireless Master Module<br>1600 input/1600 output bits                                                                                                                                                            | ---       | <b>WD30-ME</b>          |
|                                                                        |                                                                                                                                                                                                                            | ---       | <b>WD30-ME01</b>        |
|                                                                        | DeviceNet Wireless Slave Module 512 input/512 output bits                                                                                                                                                                  | ---       | <b>WD30-SE</b>          |
|                                                                        |                                                                                                                                                                                                                            | ---       | <b>WD30-SE01</b>        |

- Note:**
1. Order Fiber Amplifier Modules and Reduced-wiring Connectors as sets.
  2. XS8A-0441 and XS8A-0442 Connectors are packed in sets of 10. Order these Connectors in multiples of 10.

## DeviceNet Multiple I/O Terminal Modules

## ■ DeviceNet Multiple I/O Terminal Modules

| Name                      |                                              | I/O points         | Specifications                                        | Standards           | Part number         |
|---------------------------|----------------------------------------------|--------------------|-------------------------------------------------------|---------------------|---------------------|
| Communications Unit       |                                              | ---                | Total Slave I/O points: 1,024 max.                    | U, C, CE            | <b>DRT1-COM</b>     |
| Digital I/O Modules       | Modules with Terminal Blocks                 | 16 inputs          | NPN (+ common)                                        |                     | <b>GT1-ID16</b>     |
|                           |                                              | 16 inputs          | PNP (- common)                                        |                     | <b>GT1-ID16-1</b>   |
|                           |                                              | 16 outputs         | NPN (- common)                                        |                     | <b>GT1-OD16</b>     |
|                           |                                              | 16 outputs         | PNP (+ common)                                        |                     | <b>GT1-OD16-1</b>   |
|                           | Modules with MOLEX Connectors                | 16 inputs          | NPN (+ common)                                        |                     | <b>GT1-ID16MX</b>   |
|                           |                                              | 16 inputs          | PNP (- common)                                        |                     | <b>GT1-ID16MX-1</b> |
|                           |                                              | 16 outputs         | NPN (- common)                                        |                     | <b>GT1-OD16MX</b>   |
|                           |                                              | 16 outputs         | PNP (+ common)                                        |                     | <b>GT1-OD16MX-1</b> |
|                           | Modules with Fujitsu Connectors              | 16 inputs          | NPN (+ common)                                        |                     | <b>GT1-ID16ML</b>   |
|                           |                                              | 16 inputs          | PNP (- common)                                        |                     | <b>GT1-ID16ML-1</b> |
|                           |                                              | 16 outputs         | NPN (- common)                                        |                     | <b>GT1-OD16ML</b>   |
|                           |                                              | 16 outputs         | PNP (+ common)                                        |                     | <b>GT1-OD16ML-1</b> |
|                           | Modules with D-Sub 25-pin Connectors         | 16 inputs          | NPN (+ common)                                        |                     | <b>GT1-ID16DS</b>   |
|                           |                                              | 16 inputs          | PNP (- common)                                        |                     | <b>GT1-ID16DS-1</b> |
|                           |                                              | 16 outputs         | NPN (- common)                                        |                     | <b>GT1-OD16DS</b>   |
|                           |                                              | 16 outputs         | PNP (+ common)                                        |                     | <b>GT1-OD16DS-1</b> |
|                           | Modules with High-density Fujitsu Connectors | 32 inputs          | NPN (+ common)                                        |                     | <b>GT1-ID32ML</b>   |
|                           |                                              | 32 inputs          | PNP (- common)                                        |                     | <b>GT1-ID32ML-1</b> |
|                           |                                              | 32 outputs         | NPN (- common)                                        |                     | <b>GT1-OD32ML</b>   |
|                           |                                              | 32 outputs         | PNP (+ common)                                        | <b>GT1-OD32ML-1</b> |                     |
| Analog Input Modules      |                                              | 8 inputs           | MOLEX connector                                       | <b>GT1-AD08MX</b>   |                     |
|                           |                                              | 4 inputs           | Terminal block                                        | <b>GT1-AD04</b>     |                     |
| Analog Output Modules     |                                              | 4 outputs          | MOLEX connector                                       | <b>GT1-DA04MX</b>   |                     |
|                           |                                              | 4 outputs          | Terminal block                                        | <b>GT1-DA04</b>     |                     |
| Temperature Input Modules |                                              | 4 inputs           | Thermocouple                                          | <b>GT1-TS04T</b>    |                     |
|                           |                                              | 4 inputs           | Platinum resistance thermometer                       | <b>GT1-TS04P</b>    |                     |
| Counter Unit              |                                              | 1 input, 2 outputs | 1 input, 2 outputs<br>Counter Unit with encoder input | CE                  | <b>GT1-CT01</b>     |
| Relay Output Modules      |                                              | 8 outputs          | 8 relay outputs, 2A, SPST-NO                          | U, C, CE            | <b>GT1-ROP08</b>    |
|                           |                                              | 16 outputs         | 8 relay outputs, 5A, SPST-NO                          |                     | <b>GT1-ROS16</b>    |
| I/O Unit Connecting Cable |                                              | ---                | 1 m                                                   | ---                 | <b>GCM1-100</b>     |

### ■ CompoBus/S Slave Modules

| Name                                                                | Specifications                                           | Standards | Part number  |
|---------------------------------------------------------------------|----------------------------------------------------------|-----------|--------------|
| I/O Link Modules                                                    | For CPM2C; 8 input points, 8 output points               | CE        | CPM2C-SRT21  |
|                                                                     | For CPM1A/CPM2A; 8 input points, 8 output points         | U, C, CE  | CPM1A-SRT21  |
| Remote I/O Terminals with Transistors                               | 4 input points, NPN (+ common)                           | U, C, CE  | SRT2-ID04    |
|                                                                     | 4 input points, PNP (- common)                           |           | SRT2-ID04-1  |
|                                                                     | 4 output points, NPN (- common)                          |           | SRT2-OD04    |
|                                                                     | 4 output points, PNP (+ common)                          |           | SRT2-OD04-1  |
|                                                                     | 8 input points, NPN (+ common)                           |           | SRT2-ID08    |
|                                                                     | 8 input points, PNP (- common)                           |           | SRT2-ID08-1  |
|                                                                     | 8 output points, NPN (- common)                          |           | SRT2-OD08    |
|                                                                     | 8 output points, PNP (+ common)                          |           | SRT2-OD08-1  |
|                                                                     | 16 input points, NPN (+ common)                          |           | SRT2-ID16    |
|                                                                     | 16 input points, PNP (- common)                          |           | SRT2-ID16-1  |
|                                                                     | 16 output points, NPN (- common)                         |           | SRT2-OD16    |
|                                                                     | 16 output points, PNP (+ common)                         |           | SRT2-OD16-1  |
| Remote I/O Terminals with Transistors and 3-tier Terminal Block     | 16 input points, NPN (+ common)                          |           | SRT2-ID16T   |
|                                                                     | 16 input points, PNP (- common)                          |           | SRT2-ID16T-1 |
|                                                                     | 16 I/O points, NPN (inputs: + common, outputs: - common) |           | SRT2-MD16T   |
|                                                                     | 16 I/O points, PNP (inputs: - common, outputs: + common) |           | SRT2-MD16T-1 |
|                                                                     | 16 output points, NPN (- common)                         |           | SRT2-OD16T   |
|                                                                     | 16 output points, PNP (+ common)                         |           | SRT2-OD16T-1 |
| Remote Input Terminals with Transistors and Connectors (4/8 points) | 4 input points, NPN (+ common)                           | CE        | SRT2-ID04MX  |
|                                                                     | 8 input points, PNP (+ common)                           |           | SRT2-ID08MX  |
| Remote Output Terminals with Relays                                 | 8 relay output points                                    | U, C, CE  | SRT2-ROC08   |
|                                                                     | 16 relay output points                                   |           | SRT2-ROC16   |
|                                                                     | 8 power MOSFET relay output points                       |           | SRT2-ROF08   |
|                                                                     | 16 power MOSFET relay output points                      |           | SRT2-ROF16   |

## CompoBus/S Modules

## CompoBus/S Slave Modules (Continued)

| Name                                                                         | Specifications                                           | Standards | Part number    |
|------------------------------------------------------------------------------|----------------------------------------------------------|-----------|----------------|
| Remote I/O Terminals with Transistors and Connectors                         | 32 input points, NPN (+ common)                          | CE        | SRT2-ID32ML    |
|                                                                              | 32 input points, PNP (- common)                          |           | SRT2-ID32ML-1  |
|                                                                              | 32 output points, NPN (- common)                         |           | SRT2-OD32ML    |
|                                                                              | 32 output points, PNP (+ common)                         |           | SRT2-OD32ML-1  |
|                                                                              | 32 I/O points, NPN (inputs: + common, outputs: - common) |           | SRT2-MD32ML    |
|                                                                              | 32 I/O points, PNP (inputs: - common, outputs: + common) |           | SRT2-MD32ML-1  |
|                                                                              | 8 input points, NPN (+ common)                           | U, C, CE  | SRT2-VID08S    |
|                                                                              | 8 input points, PNP (- common)                           |           | SRT2-VID08S-1  |
|                                                                              | 8 output points, NPN (- common)                          |           | SRT2-VOD08S    |
|                                                                              | 8 output points, PNP (+ common)                          |           | SRT2-VOD08S-1  |
|                                                                              | 16 input points, NPN (+ common)                          |           | SRT2-VID16ML   |
|                                                                              | 16 input points, PNP (- common)                          |           | SRT2-VID16ML-1 |
|                                                                              | 16 output points, NPN (- common)                         |           | SRT2-VOD16ML   |
|                                                                              | 16 output points, PNP (+ common)                         |           | SRT2-VOD16ML-1 |
|                                                                              | Mounting Bracket A                                       |           | SRT2-ATT01     |
|                                                                              | Mounting Bracket B                                       |           | SRT2-ATT02     |
| Waterproof Terminals (with Transistors)                                      | 4 input points, NPN (+ common)                           | CE        | SRT2-ID04CL    |
|                                                                              | 4 input points, PNP (- common)                           |           | SRT2-ID04CL-1  |
|                                                                              | 4 output points, NPN (- common)                          |           | SRT2-OD04CL    |
|                                                                              | 4 output points, PNP (+ common)                          |           | SRT2-OD04CL-1  |
|                                                                              | 8 input points, NPN (+ common)                           |           | SRT2-ID08CL    |
|                                                                              | 8 input points, PNP (- common)                           |           | SRT2-ID08CL-1  |
|                                                                              | 8 output points, NPN (- common)                          |           | SRT2-OD08CL    |
|                                                                              | 8 output points, PNP (+ common)                          |           | SRT2-OD08CL-1  |
| CompoBus/S Fiber Amplifier Sensor Communication Unit                         | Connects to up to 14 Fiber Amplifier Modules             |           | E3X-SRT21      |
| Sensor Terminals                                                             | 8 Sensor inputs (NPN)                                    | ---       | SRT2-ID08S     |
|                                                                              | 4 remote-teaching Sensor inputs, 4 outputs (NPN)         |           | SRT2-ND08S     |
|                                                                              | 8 Sensor outputs (NPN)                                   |           | SRT2-OD08S     |
| Analog Input Terminal                                                        | 1 to 4 inputs (set via DIP switch)                       | U, C, CE  | SRT2-AD04      |
| Analog Output Terminal                                                       | 1 or 2 outputs (set via DIP switch)                      |           | SRT2-DA02      |
| Remote I/O Modules                                                           | 16 input points, NPN (+ common)                          | ---       | SRT2-ID16P     |
|                                                                              | 16 output points, NPN (- common)                         |           | SRT2-OD16P     |
| Positioner Drivers<br>(Cannot be used in Long-distance Communications Mode.) | 200-VAC input, 6 A                                       | U, CE, CU | FND-X06H-SRT   |
|                                                                              | 200-VAC input, 12 A                                      |           | FND-X12H-SRT   |
|                                                                              | 200-VAC input, 25 A                                      |           | FND-X25H-SRT   |
|                                                                              | 200-VAC input, 50 A                                      |           | FND-X50H-SRT   |
|                                                                              | 100-VAC input, 6 A                                       |           | FND-X06L-SRT   |
|                                                                              | 100-VAC input, 12 A                                      |           | FND-X12L-SRT   |

## ■ Optional Products

| Name                                                                                                                                 | Specifications                                                                                            | Standards | Part number     |
|--------------------------------------------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------------|-----------|-----------------|
| I/O Unit Cover<br>                                  | Cover for 10-pin terminal block                                                                           | ---       | C200H-COV11     |
| Terminal Block Covers<br>                           | Short protection for 10-pin terminal block (package of 10 covers); 8 pts                                  | ---       | C200H-COV02     |
|                                                                                                                                      | Short protection for 19-pin terminal block (package of 10 covers); 12 pts                                 |           | C200H-COV03     |
| C200H Unit Connector Cover<br>                      | Protective cover for unused I/O Connecting Cable connectors                                               |           | C500-COV01      |
| CS1 Special I/O Unit Connector Cover                                                                                                 | Protective cover for unused I/O Connecting Cable connectors                                               |           | CV500-COV01     |
| C200H Expansion I/O Backplane Insulation Plates<br> | Electrically insulate C200H Expansion I/O Backplanes from the control panel to increase noise resistance. | N, L, CE  | C200HW-ATT32    |
|                                                                                                                                      | For 3-slot Backplane                                                                                      |           | C200HW-ATT52    |
|                                                                                                                                      | For 5-slot Backplane                                                                                      |           | C200HW-ATT82    |
|                                                                                                                                      | For 8-slot Backplane                                                                                      |           | C200HW-ATT82    |
|                                                                                                                                      | For 10-slot Backplane                                                                                     |           | C200HW-ATT82    |
| Relay<br>                                           | 24 VDC, for C200H-OC221/OC222/OC223/OC224/OC225                                                           | ---       | G6B-1174P-FD-US |
| Programming Console Mounting Bracket<br>          | Used to attach C200H-PRO27-E Hand-held Programming Console to a panel.                                    | ---       | C200H-ATT01     |
| Space Unit                                                                                                                           | Used for empty I/O slot.                                                                                  | ---       | C200H-SP001     |
| Terminating Resistor (See note.)                                                                                                     | Mounts to end of CS1 Long-distance Expansion Rack                                                         | U, C      | CV500-TER01     |

**Note:** Two Terminating Resistors are included with the CS1W-IC102 I/O Control Unit.

## Mounting Rails and Accessories

| Name                                                                                                              | Specifications                | Standards | Part number |
|-------------------------------------------------------------------------------------------------------------------|-------------------------------|-----------|-------------|
| DIN Track Mounting Bracket<br> | 1 set (2 included)            | ---       | C200H-DIN01 |
| DIN Tracks<br>                 | Length: 50 cm; height: 7.3 cm | ---       | PFP-50N     |
|                                                                                                                   | Length: 1 m; height: 7.3 cm   |           | PFP-100N    |
|                                                                                                                   | Length: 50 cm; height: 16 mm  |           | PFP-100N2   |
| End Plate<br>                  | ---                           |           | PFP-M       |
| Spacer<br>                     | ---                           | ---       | PFP-S       |

# Certain Terms and Conditions of Sale

1. **Offer; Acceptance.** These terms and conditions (these "Terms") are deemed part of all catalogs, manuals or other documents, whether electronic or in writing, relating to the sale of goods or services (collectively, the "Goods") by Omron Electronics LLC and its subsidiary companies ("Seller"). Seller hereby objects to any terms or conditions proposed in Buyer's purchase order or other documents which are inconsistent with, or in addition to, these Terms. Please contact your Omron representative to confirm any additional terms for sales from your Omron company.
2. **Prices.** All prices stated are current, subject to change without notice by Seller. Buyer agrees to pay the price in effect at time of shipment.
3. **Discounts.** Cash discounts, if any, will apply only on the net amount of invoices sent to Buyer after deducting transportation charges, taxes and duties, and will be allowed only if (i) the invoice is paid according to Seller's payment terms and (ii) Buyer has no past due amounts owing to Seller.
4. **Orders.** Seller will accept no order less than \$200 net billing.
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8. **Cancellation; Etc.** Orders are not subject to rescheduling or cancellation unless Buyer indemnifies Seller fully against all costs or expenses arising in connection therewith.
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10. **Shipping; Delivery.** Unless otherwise expressly agreed in writing by Seller:
  - a. Shipments shall be by a carrier selected by Seller;
  - b. Such carrier shall act as the agent of Buyer and delivery to such carrier shall constitute delivery to Buyer;
  - c. All sales and shipments of Goods shall be FOB shipping point (unless otherwise stated in writing by Seller), at which point title to and all risk of loss of the Goods shall pass from Seller to Buyer, provided that Seller shall retain a security interest in the Goods until the full purchase price is paid by Buyer;
  - d. Delivery and shipping dates are estimates only.
  - e. Seller will package Goods as it deems proper for protection against normal handling and extra charges apply to special conditions.
11. **Claims.** Any claim by Buyer against Seller for shortage or damage to the Goods occurring before delivery to the carrier must be presented in writing to Seller within 30 days of receipt of shipment and include the original transportation bill signed by the carrier noting that the carrier received the Goods from Seller in the condition claimed.
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To convert millimeters into inches, multiply by 0.03937. To convert grams into ounces, multiply by 0.03527.

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**OMRON**<sup>®</sup>**OMRON ELECTRONICS LLC**

One Commerce Drive  
Schaumburg, IL 60173

**847-843-7900**

For US technical support or other inquiries:

**800-556-6766****OMRON CANADA, INC.**

885 Milner Avenue  
Toronto, Ontario M1B 5V8

**416-286-6465****OMRON ON-LINE**

Global - <http://www.omron.com>

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