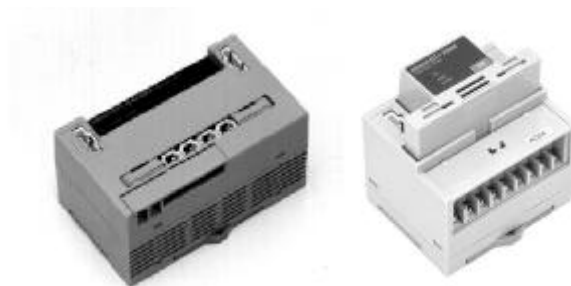


Analog Output Module

GT1-DA

Analog Output Modules Compatible with MULTIPLE I/O TERMINAL

- Output block incorporates connectors that can be easily mounted or dismounted.
- 4 inputs
- High resolution of 1/6,000.
- High conversion speed of 4 ms/4 points.
- Dimensions of connector model:
110 × 60 × 65 (W × H × D)
- Dimensions of terminal block model:
80 × 80 × 65 (W × H × D)
- DIN track mounting



Ordering Information

I/O classification	I/O points	Terminal	Power supply voltage	I/O specification	Model
Analog output	4	Connector	24 VDC	0 to 5 V, 1 to 5 V, 0 to 10 V, -10 to 10 V	GT1-DA04MX
		Terminal block		0 to 5 V, 1 to 5 V, 0 to 10 V, -10 to 10 V, 4 to 20 mA	GT1-DA04

Note: A communications cable, GCN1-004, is included with each module.

Specifications

■ Output

Item		Voltage output	Current output
Output points		4	
Output type		0 to 5 V, 1 to 5 V, 0 to 10 V, -10 to 10 V	4 to 20 mA
Output permissible load resistance		5 kΩ min.	600 Ω max.
Output impedance		0.5 Ω max.	---
Resolution		1/6,000 (full scale)	
Overall accuracy	25°C	±0.4% full scale	
	-10°C to 55°C	±0.8% full scale	
Conversion speed		4 ms/4 points	
DA output data		Binary data -10- to 10-V range: F448 to 0BB8 full scale Other signal ranges: 0000 to 1770 full scale	
Insulation method		Transistor or photocoupler insulation between outputs and power lines.	

■ Characteristics

I/O power supply voltage	20.4 to 26.4 VDC (24 VDC +10%/-15%)	
Current consumption	I/O Module Interface	Internal circuitry power supply
	50 mA max.	GT1-DA04MX: 100 mA max. GT1-DA04: 150 mA max.
Noise immunity	±1,500 V (p-p) with a pulse width of 0.1 to 1 μs	
Vibration resistance	10 to 150 Hz, 1.0-mm double amplitude or 70 m/s ²	
Shock resistance	200 m/s ²	
Dielectric strength	500 VAC	
Mounting method	35-mm DIN track mounting	
Mounting strength	No damage when 100 N pull load was applied in all directions (10 N min. in the DIN track direction)	
Terminal strength	No damage when 100 N pull load was applied	
Ambient temperature	Operating: -10°C to 55°C	
	Storage: -25°C to 65°C	
Ambient humidity	Operating: 25% to 85% RH (with no condensation)	

■ Connectors

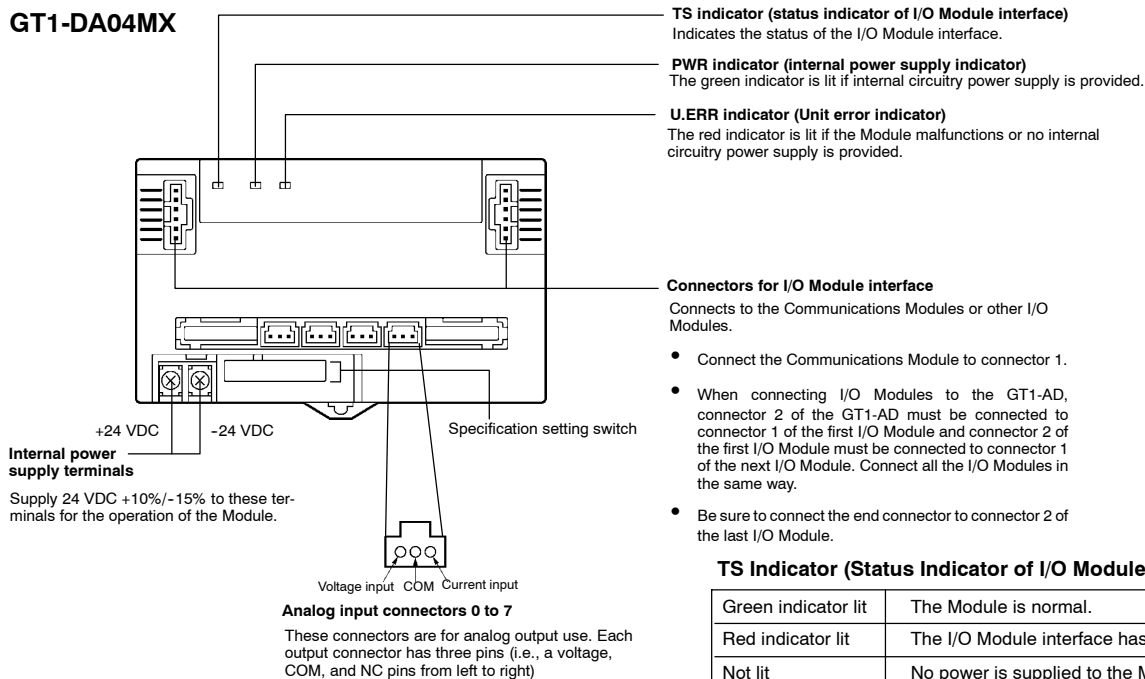
Type			Model	Remarks
Molex connector	IDC (Use Press-fit tool.)	Housing	GCN1-MX25-B*	(25 piece bag from OMRON) 22 AWG
		Solderless terminal		
	Solderless terminal	Housing	50-57-9403	
		Chain terminal	16-02-0069	24 to 30 AWG
			16-02-0086	22 to 24 AWG
		Loose terminal	16-02-0096	24 to 30 AWG
		Press-fit tool	11-01-0209	(See note.)

Note: Contact your OMRON representatives for the above connectors.

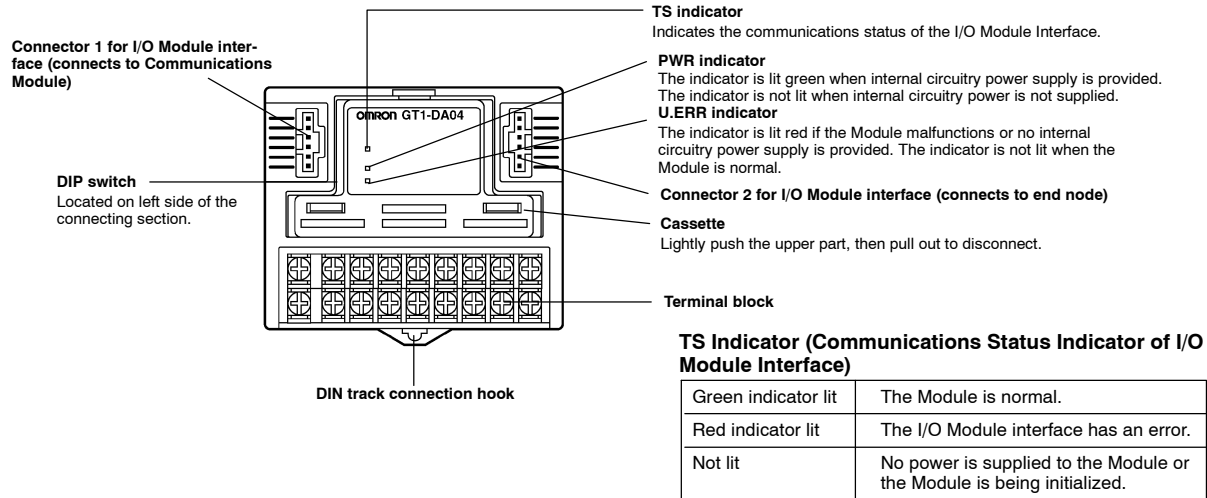
* Stocked by OMRON.

Nomenclature

GT1-DA04MX



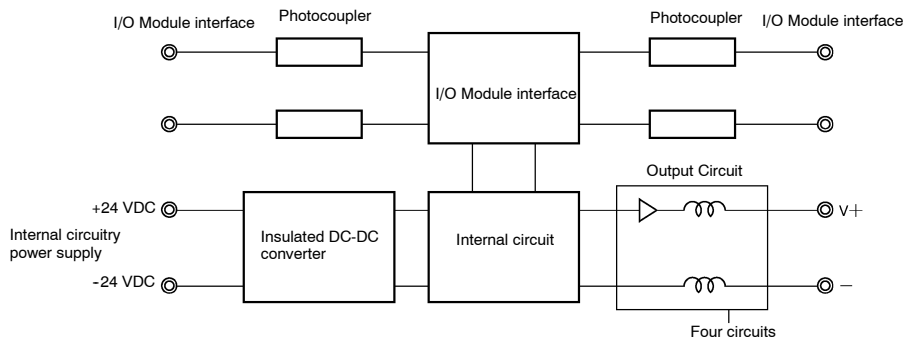
GT1-DA04



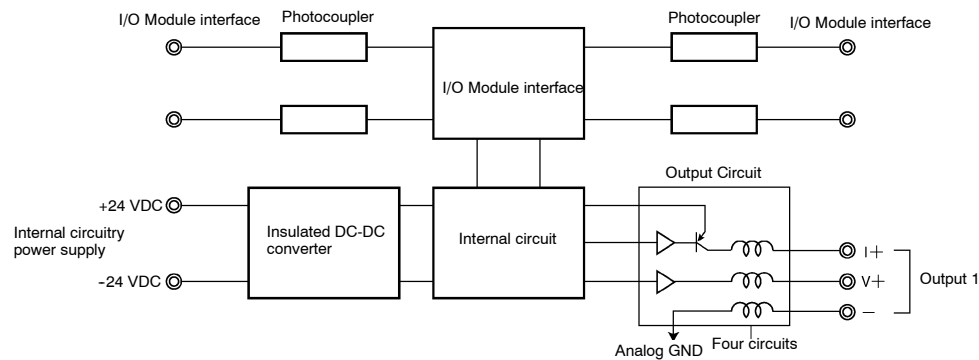
Operation

■ Internal Circuit Configuration

GT1-DA04MX



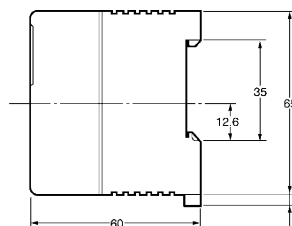
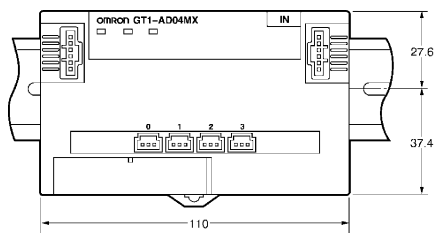
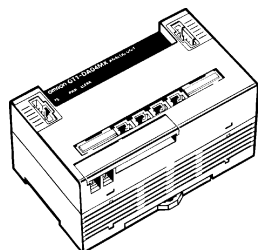
GT1-DA04



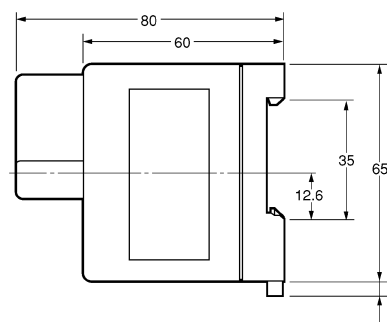
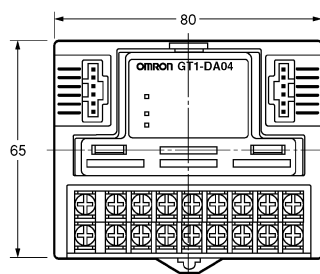
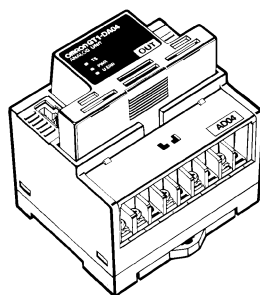
Dimensions

Note: All units are in millimeters unless otherwise indicated.

GT1-DA04MX



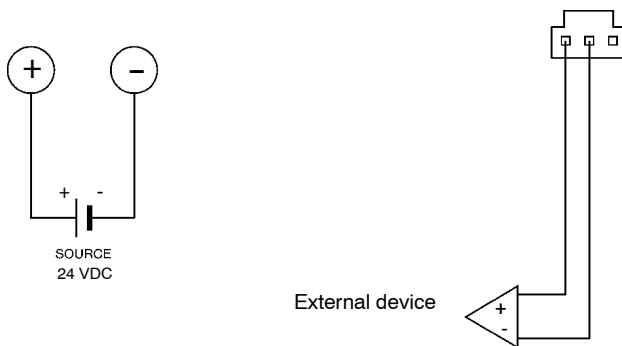
GT1-DA04



Installation

■ Wiring

Be sure to connect Molex-made connectors for analog output wires and connect the wires as shown below.



Precautions

Refer to the *DeviceNet Operation Manual (W267)* before using the Module.

Wiring

- To prevent inductive noise, do not wire power lines or high-tension lines along with or near the cables. Other noise-prevention techniques, such as using shielding or separate conduit/ducting, are also effective.
- Install the Module as far as possible from equipment that generates strong high-frequency signals (such as high-frequency welders) and equipment that generates surges. Such equipment can cause the Module to malfunction.
- Install surge absorbers or noise filters on nearby equipment that generates noise, particularly equipment that has inductive components such as motors, transformers, solenoids, or magnetic coils.
- When using a noise filter in the power supply, check the voltage and current and install the noise filter as close as possible to the Module.

NOTE: DIMENSIONS SHOWN ARE IN MILLIMETERS. To convert millimeters to inches divide by 25.4.
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