

Laurel Electronics



2013 Customer Price List

Effective 29 November 2012

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Rev 29 Nov 2012

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Series

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LAUREATE DIGITAL PANEL METERS & COUNTERS

High accuracy, high read rate, digitally programmable meters available for a wide range of industrial signals and with a choice of relay options, analog output options, and serial communication options. Modular design with field installable option boards with calibration stored in EEPROM.

L1, L2, L3, L4	Meters for DC, AC, voltage, current, process, strain gauge, load cell, TC, RTD, ohms.....	3
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LAUREATE DIN RAIL TRANSMITTERS

Transmitters LT2 through LT8 offer high accuracy, high update rate, and a wide choice of digitally programmable functions. Standard features include an isolated 4-20 mA or 0-10V analog output (user selectable), an isolated RS232 or RS485 serial data output (user selectable), the Modbus or Laurel protocol (user selectable), and dual 120 mA solid state relays. Same signal conditioners and setup software as Laureate meters and counters.

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MAGNA SERIES LARGE DIGIT DISPLAYS

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HOW TO ORDER

When building a model number, make one entry per bold heading. For example, Laureate model **L20010DCV1, BOX1** is a 200 mV DC voltmeter with plug-in screw terminals, a universal AC power supply, an analog output, and an enclosure which protects the meter to NEMA-4X from all sides.

LAUREATE SERIES DPM

L Laureate Series meter, plug-in screw terminal connectors \$230

Display Color

1 Basic DPM with green LEDs NC
2 Basic DPM with red LEDs NC
3 Extended DPM, green LEDs \$30
4 Extended DPM, red LEDs \$30
"Extended" adds customer curve linearization and rate from successive readings.

Power

0 85-264 Vac or 95-300 Vdc NC
1 12-34 Vac or 10-48 Vdc \$30

Relay Output

0 None
1 Two 8A Form C contact relays \$80
2 Two 120 mA solid state relays \$55
3 Four 8A Form C contact relays \$100
4 Four 120 mA solid state relays \$75

Analog Output

0 None
1 4-20 mA, 0-10 V, -10 to +10V \$90

Serial Communications

0 None
1 RS232 \$60
2 RS485 \$80
4 Modbus RS485 \$90
5 USB \$60
6 USB-to-RS485 converter \$100
7 Ethernet \$120
8 Ethernet-to-RS485 converter \$150

Input Type

DC Volts

DCV1 ± 200.00 mV NC
DCV2 ± 2.0000 V NC
DCV3 ± 20.000 V NC
DCV4 ± 200.00 V NC
DCV5 ± 600.0 V (range not ETL certified) NC
DCV6 ± 300.0 V NC

DC Amperes

DCA1 ± 2.0000 mA NC
DCA2 ± 20.000 mA NC
DCA3 ± 200.00 mA NC
DCA4 ± 5.000 A NC

RMS Volts

RMV1 200.00 mV \$40
RMV2 2.0000 V \$40
RMV3 20.000 V \$40
RMV4 200.00 V \$40
RMV5 600.0 V (not ETL certified) \$40
RMV6 250.0 \$40

RMS Amperes

RMA1 2.0000 mA \$40
RMA2 20.000 mA \$40
RMA3 200.00 mA \$40
RMA4 5.000 A \$40

Process Signals (4-20 mA, 0-5V, etc.)

P 4-20 mA = 0-100.00 display NC
P1 Custom scaling \$10

Specify minimum signal & displayed reading, maximum signal & displayed reading. 5, 10 or 24V DC excitation.

Strain Gauges, Potentiometers (4-wire ratio)

SG 0 to 200mV = 0 to 100.00 display NC
SG1 Custom scaling \$10

Specify minimum signal & displayed reading, maximum signal & displayed reading. 0.2 to 20V. 10 Vdc excitation.

Load Cells (6-wire ratio)

WM1 -99,999 to +99,999 \$65

Specify minimum signal & displayed reading, maximum signal & displayed reading. Full scale input 20 mV to 500 mV. Includes 10 Vdc excitation.

Thermocouples

JC -210 to 760°C NC
JF -347 to 1400°F NC
KC -244 to 1372°C NC
KF -408 to 2501°F NC
TC -257 to 400°C NC
TF -430 to 752°F NC
EC -270 to 1000°C NC
EF -450 to 1830°F NC
NC -245 to 1300°C NC
NF -410 to 2370°F NC
RC -45 to 1768°C NC
RF -49 to 3213°F NC
SC -46 to 1768°C NC
SF -51 to 3214°F NC

RTD Input (with alpha tempco)

P385C Pt 100 Ω platinum, -202 to 850°C NC
P385F Pt 100 Ω platinum, -331 to 1562°F NC
P392C Pt 100 Ω platinum, -202 to 850°C NC
P392F Pt 100 Ω platinum, -331 to 1562°F NC
N672C Ni 120 Ω nickel, -100°C to +260°C NC
N672F Ni 120 Ω nickel, -148°F to +500°F NC
C427C Cu 10 Ω copper, -100°C to +260°C NC
C427F Cu 10 Ω copper, -148°F to +500°F NC

Ohms Input

R1 0-20 ohms NC
R2 0-200 ohms NC
R3 0-2 kohms NC
R4 0-20 kohms NC
R5 0-200 kohms NC
R6 0-2 Mohms (special, fixed) \$25

Options & Accessories. Please see page 12.

LAUREATE COUNTER / TIMER

L Laureate Series multifunction counter / timer / rate meter with dual-channel pulse, process or quadrature input \$240

Display Color

5 Basic meter, green LEDs NC
6 Basic meter, red LEDs NC
7 Extended meter, green LEDs \$30
8 Extended meter, red LEDs \$30

Please see notes below for "Extended."

Power

0 85-264 Vac or 95-300 Vdc NC
1 12-34 Vac or 10-48 Vdc \$30

Relay Output

0 None NC
1 Two 8A Form C contact relays \$80
2 Two 120 mA solid state relays \$55
3 Four 8A Form A contact relays \$100
4 Four 120 mA solid state relays \$75

Analog Output

0 None NC
1 Single isolated analog output \$90
2 Dual isolated analog outputs \$135

Serial Communications

0 None
1 RS232 \$60
2 RS485 \$80
4 Modbus RS485 \$90
5 USB \$60
6 USB-to-RS485 converter \$100
7 Ethernet \$120
8 Ethernet-to-RS485 converter \$150

Input Type

Dual Channel Pulse or AC Inputs

FR Scalable to 999,999 NC

Basic counter

Frequency (2 channels simultaneously), rate (2 channels simultaneously), total (up or down, 2 channels simultaneously), period (2 channels simultaneously), stopwatch, time interval, square root of rate.

Extended counter

Above plus rate and total simultaneously, linearized inputs using up to 180 points, arithmetic functions (A*B, A/B, A+B, A-B, A/B-1), phase angle, duty cycle, up/down counting, batch control.

Process Rate & Total

VF1 4-20 mA NC
VF2 0-1 mA NC
VF3 0-10 V NC
VF4 Custom Scaling Consult factory

Basic counter

Rate, square root of rate (differential pressure or target type flow meters), rate and total.

Extended counter

Above plus linearized inputs using up to 180 points, batch control with rate, total and # of batches or grand total of all batches, time measurements based on rate.

Quadrature

QD scalable to 999,999 \$30

Basic counter

Position or length from encoders. Accepts differential or single-ended inputs. 1x, 2x or 4x plus zero index.

Extended counter

Above plus bidirectional rate. Rate and position or length are not simultaneous.

Options & Accessories. Please see page 12.

SERIAL INPUT METER / REMOTE DISPLAY

L Laureate meter\$180

Display Color

5 Remote display with green LEDsNC
6 Remote display with red LEDsNC

Power

0 85-264 Vac or 90-300 Vdc.....NC
1 12-32 Vac or 10-48 Vdc.....\$30

Relay Output

0 None
1 Two 8A contact relays\$80
2 Two 120 mA solid state relays.....\$55
3 Four 8A Form C contact relays..... \$100
4 Four 120 mA solid state relays\$75

Analog Output

0 None.....NC
1 Single isolated analog output\$90
2 Dual isolated analog outputs\$135

Serial Communications

1 RS232\$60
2 RS485\$80
4 Modbus RS485.....\$90
5 USB\$60
6 USB to RS485 converter\$100
7 Ethernet.....\$120
8 Ethernet-to-RS485 converter.....\$150

Options & Accessories. Please see page 12.

LAUREATE SCALE / WEIGHING METER

LW Laureate scale / weighing meter, plug-in screw terminal connectors.....\$260

Display Color

1 Basic meter with green LEDsNC
2 Basic meter with red LEDsNC

Power

0 85-264 Vac or 95-300 VdcNC
1 12-32 Vac or 10-48 Vdc\$30

Relay Output

0 None
1 Two 8A Form C contact relays\$80
2 Two 120 mA solid state relays\$55
3 Four 8A Form C contact relays \$100
4 Four 120 mA solid state relays\$75

Analog Output

0 None
1 4-20 mA, 0-20 mA, 0-10V..... \$90

Serial Communications

0 None
1 RS232\$60
2 RS485\$80
5 USB\$60
6 USB-to-RS485 converter.....\$100
7 Ethernet.....\$120
8 Ethernet-to-RS485 converter ..\$150

Input Type**DC Volts**

DCV1 ± 200.00 mVNC
DCV2 ± 2.0000 VNC
DCV3 ± 20.000 VNC

Process Signals (4-20mA, 0-5V, etc.)

P 4-20 mA = 0-100.00 displayNC
P1 Custom scaling.....\$10

Specify min signal & displayed reading, max signal & displayed reading. Includes 5, 10 or 24 Vdc excitation.

Strain Gauges, Potentiometers (4-wire ratio)

SG 0-200 mV = 0-100.00 displayNC
SG1 Custom scaling.....\$10

Specify min signal and reading, max signal & reading. Full scale input 200 mV to 20V. Includes 10 Vdc excitation.

Load Cells (6-wire ratio)

WM1 -99,999 to +99,999\$65

Specify min signal and displayed reading, max signal and displayed reading. Full scale input 20 mV to 500 mV. Includes 10 Vdc excitation.

Add-on Options & Accessories. Please see page 12.

LAUREATE TRANSMITTERS, ANALOG INPUT

Includes isolated 4-20 mA or 0-10V analog output, isolated serial data output (Modbus or Laurel protocol), isolated dual 120 mA solid state relays, isolated 5, 10 or 24 Vdc excitation output (for DC, AC, process, strain gauge, load cell inputs), and detachable screw clamp connectors.

LT Laureate transmitter \$235

Main Board

2 Standard analog input NC
4 Extended analog input \$40

Extended allows custom curve linearization and rate from successive readings. Not applicable to temperature.

Power

0 85-264 Vac or 95-300 Vdc NC
1 12-32 Vac or 10-48 Vdc \$30

Transmitter Outputs

0 4-20 mA & RS232/RS485 \$0
7 4-20 mA & Ethernet (available Q1 2013) \$50

Input Type

DC Volts

DCV1 ± 200.00 mV NC
DCV2 ± 2.0000 V NC
DCV3 ± 20.000 V NC
DCV4 ± 200.00 V NC
DCV5 ± 600.0 V NC

DC Amperes

DCA1 ± 2.0000 mA NC
DCA2 ± 20.000 mA NC
DCA3 ± 200.00 mA NC
DCA4 ± 5.000 A NC

RMS Volts

RMV1 200.00 mV \$40
RMV2 2.0000 V \$40
RMV3 20.000 V \$40
RMV4 200.00 V \$40
RMV5 600.0 V \$40

RMS Amperes

RMA1 2.0000 mA \$40
RMA2 20.000 mA \$40
RMA3 200.00 mA \$40
RMA4 5.000 A \$40

Process Signals (4-20 mA, 0-5V, etc.)

P 4-20 mA in = 4-20 mA out NC
P1 Custom scaling \$10

Specify min input & output, max input & output.

Strain Gauges, Potentiometers (4-wire ratio)

SG 0-200 mV in = 4-20 mA out NC
SG1 Custom scaling \$10

Specify min input signal & min output, max input signal & max output. Set for 10 Vdc excitation.

Load Cells (6-wire ratio)

WM1 Custom scaling \$65

Specify min input & output, max input & output. Full scale input from 20 mV to 500 mV. Set for 10 Vdc excitation.

Thermocouples

JC -210 to 760°C NC
JF -347 to 1400°F NC
KC -244 to 1372°C NC
KF -408 to 2501°F NC
NC -245 to 1300°C NC
NF -410 to 2370°F NC
TC -257 to 400°C NC
TF -430 to 752°F NC
EC -270 to 1000°C NC
EF -450 to 1830°F NC
RC -45 to 1768°C NC
RF -49 to 3213°F NC
SC -46 to 1768°C NC
SF -51 to 3214°F NC

RTD Input (with alpha tempco)

P385C Pt 100 Ω platinum, -202 to 850°C NC
P385F Pt 100 Ω platinum, -331 to 1562°F NC
P392C Pt 100 Ω platinum, -202 to 850°C NC
P392F Pt 100 Ω platinum, -331 to 1562°F NC
N672C Ni 120 Ω nickel, -100°C to +260°C NC
N672F Ni 120 Ω nickel, -148°F to +500°F NC
C427C Cu 10 Ω copper, -100°C to +260°C NC
C427F Cu 10 Ω copper, -148°F to +500°F NC

Ohms Input

R1 0-20 ohms NC
R2 0-200 ohms NC
R3 0-2 kohms NC
R4 0-20 kohms NC
R5 0-200 kohms NC

Add-on Options & Accessories. Please see page 12.

LAUREATE TRANSMITTERS, PULSE INPUT

Includes isolated 4-20 mA or 0-10V analog output, isolated serial data output (Modbus or Laurel protocol), isolated dual 120 mA solid state relays, isolated 5, 10 or 24 Vdc excitation output, and detachable screw clamp connectors.

LT Laureate transmitter \$235

Main Board

6 Standard pulse input NC
8 Extended (see notes below) \$40

Power

0 85-264 Vac or 95-300 Vdc NC
1 12-34 Vac or 10-48 Vdc \$30

Transmitter Outputs

0 4-20 mA & RS232/RS485 \$0
7 4-20 mA & Ethernet (available Q1 2013) \$50

Input Type

Dual Channel Pulse or AC Inputs

FR Dual pulse or AC inputs NC

Standard main board

Frequency (2 channels simultaneously), rate (2 channels simultaneously), total (up or down, 2 channels simultaneously), period (2 channels simultaneously), stopwatch, time interval, square root of rate.

Extended main board

Above plus rate and total simultaneously, linearized inputs using up to 180 points, ratio, draw, arithmetic functions (A*B, A/B, A+B, A-B), phase angle, duty cycle, up/down counting, batch control.

Process Input with Totalizing

VF1 4-20 mA NC
VF2 0-1 mA NC
VF3 0-10 V NC
VF4 Custom Scaling Consult factory

Standard main board

Rate, rate & total simultaneously (analog totalizer), square root of rate (for differential pressure flow meters).

Extended main board

Above plus linearized inputs using up to 180 points, batch control with rate, total and # of batches or grand total of all batches, time measurements based on rate.

Quadrature

QD Quadrature inputs \$30

Standard main board

Position or length from encoders. Accepts differential or single-ended inputs: 1x, 2x or 4x, plus zero index.

Extended main board

Above plus bidirectional rate (rate and position or length are not simultaneous).

Accessories. Please see page 12.

LAUREATE TRANSMITTER, SERIAL DATA INPUT

Converts serial data input (Modbus or Laurel protocol) into an isolated 4-20 mA or 0-10V analog output. Includes dual 120 mA solid state relays and detachable screw clamp connectors.

LTS6 Laureate serial input transmitter \$175

Power

0 85-264 Vac or 95 to 300 Vdc NC
1 12-32 Vac or 10-48V dc \$30

Serial Data Input

0 RS232/RS485 \$0
7 Ethernet (available Q1 2013) \$50

Add-on Options & Accessories. Please see page 12.

CBL04 Cable, transmitter to DB9 on PC \$19
CBL02 USB to DB9 adapter \$39

REPLACEMENT MODULES FOR LAUREATE METERS AND TRANSMITTERS

Main Assemblies for Laureate Meters and Counters

Includes computer board, display board, 1/8 DIN case.

LMBG	Basic DPM, green LED	\$115
LMBR	Basic DPM, red LED	\$115
LWBG	Scale meter, green LED	\$145
LWBR	Scale meter, red LED	\$145
LCBG	Basic counter, green LED	\$125
LCBR	Basic counter, red LED	\$125
LCEG	Extended counter, green LED	\$155
LCER	Extended counter, red LED	\$155

Components for Main Assemblies

LMBX	DPM computer board	\$63
LCBX	Counter basic computer board	\$67
LCEX	Counter extended computer board	\$97
LWBX	Scale meter computer board	\$93
LMXG	DPM green LED display board	\$40
LMXR	DPM red LED display board	\$40
LCXG	Counter / scale green LED board	\$46
LCXR	Counter / scale red LED board	\$46
LCASE	Laureate case, 1/8 DIN	\$12

Power Supply Boards (with connector)

LPS1	85-264 Vac or 95-300 Vdc	\$55
LPS2	12-32 Vac or 10-48 Vdc	\$85

Relay Output Boards (with connectors)

LDMR	Dual 8A Form C relays	\$80
LDSR	Dual solid state relays	\$55
LQMR	Quad 8A Form C relays	\$100
LQSR	Quad solid state relays	\$75

Isolated Analog Output Boards (with connector)

LAO	Single isolated analog output	\$90
LDAO	Dual isolated analog output	\$135

Serial Communication Boards

L232	RS232, single RJ11 connector	\$60
L485	Modbus RS485, dual RJ11	\$80
LMOD	Modbus RS485, dual RJ45	\$90
LUSB	USB	\$60
LUSB485	USB-to-RS485 converter	\$100
LNET	Ethernet	\$120
LNET485	Ethernet to RS485 converter	\$150

DPM Signal Conditioner Boards (with connectors)

LSCDC	DC for basic DPM	\$60
LSCDCE	DC extended DPM	\$90
LSCRMS	True RMS for basic DPM	\$100
LSCRMSE	True RMS extended DPM	\$130
LSCLC	Load cell for basic DPM	\$125
LSCLCE	Load cell for extended DPM	\$150
LSCTC	Thermocouple	\$60
LSCRTD	RTD and ohms	\$60

Counter / Timer Signal Cond. Boards (with connectors)

LSCDF	Dual channel pulse input	\$60
LSCAF	Analog input (V-to-F)	\$60
LSCQD	Quadrature input	\$90

Main Assemblies for Laureate LT Series Transmitters

Includes main board, isolated analog output, isolated serial output, dual relays, and DIN Rail case with connectors

LT200	Basic main assembly, analog input, 85-264 Vac power, 4-20 mA, RS232/RS485	\$175
LT210	Basic main assembly, analog input, 10-48 Vdc power, 4-20 mA, RS232/RS485	\$205
LT600	Basic main assembly, pulse input, 85-264 Vac power, 4-20 mA, RS232/RS485	\$175
LT610	Basic main assembly, pulse input, 10-48 Vdc power, 4-20 mA, RS232/RS485	\$205
LT800	Extended main assembly, pulse input, 85-264 Vac power, 4-20 mA, RS232/RS485	\$215
LT810	Extended main assembly, pulse input, 10-48 Vdc power, 4-20 mA, RS232/RS485	\$245
LT207	Basic main assembly, analog input, 85-264 Vac power, 4-20 mA, Ethernet	\$225
LT217	Basic main assembly, analog input, 10-48 Vdc power, 4-20 mA, Ethernet	\$255
LT607	Basic main assembly, pulse input, 85-264 Vac power, 4-20 mA, Ethernet	\$225
LT617	Basic main assembly, pulse input, 10-48 Vdc power, 4-20 mA, Ethernet	\$255
LT807	Extended main assembly, pulse input, 85-264 Vac power, 4-20 mA, Ethernet	\$265
LT817	Extended main assembly, pulse input, 10-48 Vdc power, 4-20 mA, Ethernet	\$295

Notes 1: **LT20 & LT21** main assemblies require an analog input (or DPM) signal conditioner board.

LT60, LT61, LT80 & LT81 main assemblies require a pulse input (or counter) signal conditioner board.

LTS60 & LTS61 serial-to-analog converters do not require a signal conditioner board.

Note 2: Before ordering a replacement module, inform your seller of the revision level affixed to the square microcomputer chip of your meter or transmitter. New modules may not be compatible with old microcomputer boards, which may need to be replaced. New microcomputer boards are backward compatible with older modules.

MAGNA SERIES 2-INCH DISPLAYS

M2 Display with 2" (57 mm) digits\$540

Display Brightness

0 Normal indoor brightnessNC
1 Daylight viewing brightness\$250

Power

0 95-265 VacNC
1 11-30 Vdc\$90

Setpoint Output

0 NoneNC
1 2 5A @ 250Vac relays (6 digit)\$110
2 4 5A @ 250Vac relays (6 digit)\$150
3 2 5A @ 250Vac relays (4 digit)\$200
4 4 5A @ 250Vac relays (4 digit)\$240

Analog Output

0 NoneNC
1 4-20mA\$90
2 0-10V\$90
3 -10 to 10V\$150

Digital Interface

0 NoneNC
1 RS232\$80
2 RS485\$115

Mounting Options

1 Black case, panel mount\$85
2 Black case, wall mountNC
3 Black case, suspension mountNC

Input Type

Serial ASCII Input, RS232 or RS485

SER24 RS232, 4 digits\$85
SER26 RS232, 6 digits\$385
SER28 RS232, 8 digits\$485
SER44 RS485, 4 digits\$120
SER46 RS485, 6 digits\$420

Temperature

TEMP4 TC and RTD, 4 digits\$275

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS\$135
CLK6 6 digits, HH:MM:SS\$450

Process Signals (4 to 20mA, 0 to 5V, etc.)

P4 4 digits, 4-20mA\$100
P6 6 digits, 4-20mA\$400

Strain Gauges

WM4 4 digits, 0-20 mV\$125
WM6 6 digits, 0-20 mV\$425

Frequency, Rate, Total, Quadrature

FR4 4 digit display\$120
FR6 6 digit display\$420

MAGNA SERIES 4-INCH DISPLAYS

M4 Display with 4" (102 mm) digits\$825

Display Brightness

0 Normal indoor brightnessNC
1 Daylight viewing brightness\$250

Power

0 95-265 VacNC
1 11-30 Vdc\$90

Setpoint Output

0 NoneNC
1 Two 5A@250Vac relays\$110
2 Four 5A @ 250Vac relays\$150

Analog Output

0 NoneNC
1 4-20mA\$90
2 0-10V\$90
3 -10 to 10V\$150

Digital Interface

0 NoneNC
1 RS232\$80
2 RS485\$115

Mounting Options

1 Black case, panel mount\$85
2 Black case, wall mountNC
3 Black case, suspension mountNC

Input Type

Serial ASCII Input, RS232 or RS485

SER24 RS232, 4 digits\$85
SER26 RS232, 6 digits\$485
SER28 RS232, 8 digits\$605
SER44 RS485, 4 digits\$120
SER46 RS485, 6 digits\$520

Temperature

TEMP4 TC and RTD, 4 digits\$275

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS\$135
CLK6 6 digits, HH:MM:SS\$550

Process Signals (4 to 20mA, 0 to 5V, etc.)

P4 4 digits, 4-20mA\$100
P6 6 digits, 4-20mA\$500

Strain Gauges

WM4 4 digits, 0-20 mV\$125
WM6 6 digits, 0-20 mV\$525

Frequency, Rate, Total, Quadrature

FR4 4 digit display\$120
FR6 6 digit display\$520

MAGNA SERIES 6-INCH DISPLAYS

M6 Display with 6" (144 mm) digits\$1420

Display Brightness

0 Normal indoor brightnessNC
1 Daylight viewing brightness\$250

Power

0 95-265 VacNC
1 11-30 Vdc\$90

Setpoint Output

0 NoneNC
1 Two 5A@250Vac relays\$110
2 Four 5A @ 250Vac relays\$150

Analog Output

0 NoneNC
1 4-20mA\$90
2 0-10V\$90
3 -10 to 10V\$150

Digital Interface

0 NoneNC
1 RS232\$80
2 RS485\$115

Mounting Options

1 Black case, panel mount\$85
2 Black case, wall mountNC
3 Black case, suspension mountNC

Input Type**Serial ASCII Input, RS232 or RS485**

SER24 RS232, 4 digits\$85
SER26 RS232, 6 digits\$270
SER44 RS485, 4 digits\$120
SER46 RS485, 6 digits\$305

Temperature

TEMP4 TC and RTD, 4 digits\$275

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS\$150
CLK6 6 digits, HH:MM:SS\$335

Process Signals (4 to 20mA, 0 to 5V, etc.)

P4 4 digits, 4-20mA\$100
P6 6 digits, 4-20mA\$285

Strain Gauges

WM4 4 digits, 0-20 mV\$125
WM6 6 digits, 0-20 mV\$310

Frequency, Rate, Total, Quadrature

FR4 4 digit display\$120
FR6 6 digit display\$300

MAGNA SERIES 8-INCH DISPLAYS

M8 Display with 8" (200 mm) digits\$1725

Display Brightness

0 Normal indoor brightnessNC
1 Daylight viewing brightness\$250

Power

0 95-265 VacNC
1 11-30 Vdc\$90

Setpoint Output

0 NoneNC
1 Two 5A@250Vac relays\$110
2 Four 5A @ 250Vac relays\$150

Analog Output

0 NoneNC
1 4-20mA\$90
2 0-10V\$90
3 -10 to 10V\$150

Digital Interface

0 NoneNC
1 RS232\$80
2 RS485\$115

Mounting Options

1 Black case, panel mount\$85
2 Black case, wall mountNC
3 Black case, suspension mountNC

Input Type**Serial ASCII Input, RS232 or RS485**

SER24 RS232, 4 digits\$85
SER26 RS232, 6 digits\$285
SER44 RS485, 4 digits\$120
SER46 RS485, 6 digits\$320

Temperature

TEMP4 TC and RTD, 4 digits\$275

Clock/Timer

CLK4 4 digits, HH:MM, MM:SS\$170
CLK6 6 digits, HH:MM:SS\$370

Process Signals (4 to 20mA, 0 to 5V, etc.)

P4 4 digits, 4-20mA\$100
P6 6 digits, 4-20mA\$300

Strain Gauges

WM4 4 digits, 0-20 mV\$125
WM6 6 digits, 0-20 mV\$330

Frequency, Rate, Total, Quadrature

FR4 4 digit display\$120
FR6 6 digit display\$320

BAR SERIES 1/8 DIN BARGRAPH METER

BAR BAR series 30-segment bargraph display, 1/8 DIN housing \$325

Display Color

1 Bargraph with green LED \$15
2 Bargraph with red LED NC

Power

0 95 to 265 Vac NC
1 11 to 30 Vdc \$45

Setpoint Output

0 None NC
1 Two 5A relays \$45

Format

0 Vertical NC
1 Horizontal NC

Input Type**Process Signals** (4-20 mA, 0-5V, etc.)

P 4 to 20 mA = 0 to 100% NC
P1 Custom scaling \$15
 Specify minimum signal & displayed reading, maximum signal & displayed reading. 15 Vdc excitation.

PRO-BAR LARGE BARGRAPH METER

PB Large bargraph, 50-segment display, 11.3" x 2.8" (288 x 72 mm) case \$875

Display Color

2 Bargraph with red LED NC

Power

0 95-265 Vac NC
1 11-30 Vdc \$80

Format

0 Vertical NC
1 Horizontal NC

Mounting Options

0 Panel NC
1 Wall NC
2 Suspension NC

Input Type**Process Signals** (4-0mA, 0-5V, etc.)

P 4-20 mA = 0-10000 display NC
P1 Custom scaling \$15
 Specify minimum signal & displayed reading, maximum signal & displayed reading. Includes 24 Vdc excitation.

JUNIOR SERIES DPM

JR JUNIOR low-cost 3-1/2 digit indicator with plug-in screw terminal connectors \$155

Display Color

1 DPM with green LED NC
2 DPM with red LED NC

Power

0 110 Vac NC
1 230 Vac NC
2 24 Vac \$45
3 48 Vac \$45
4 5 Vdc \$60
5 11 to 30 Vdc \$80

Digit Options

0 None NC
1 Extra fixed zero to ± 19990 \$45

Connector Options

0 None NC
1 Decimal point selection \$15
2 Variable brightness adjustment \$40

Input Type**DC Volts**

DCV1 200.0 mV NC
DCV2 2.000 V NC
DCV3 20.00 V NC
DCV4 200.0 V NC
DCV5 500 V NC

DC Amperes

DCA1 2.000 mA NC
DCA2 20.00 mA NC
DCA3 200.0 mA NC
DCA4 2.000 A NC
DCA5 5.00 A NC

Process Signals (4-20mA, 0-5V, etc.)

P 4-20 mA = 0-1000 display \$20
P1 Custom scaling \$35
 Specify minimum signal & displayed reading, maximum signal & displayed reading. 10 or 24 Vdc excitation.

AC Volts (Average)

ACV1 200.0 mV \$35
ACV2 2.000 V \$35
ACV3 20.00 V \$35
ACV4 200.0 V \$35
ACV5 500 V \$35

AC Amperes (Average)

ACA1 2.000 mA \$35
ACA2 20.00 mA \$35
ACA3 200.0 mA \$35
ACA4 2.000 A \$35
ACA5 5.00 A \$35

ETHERNET TO RS485 CONVERTER

Interfaces the Ethernet to up to 31 Laureate meters or transmitters on an RS485 bus.

LTNET485-1Converter, 85-264Vac\$150
LTNET485-2Converter, 10-48Vdc\$180

QUADRUPLE OUTPUT LOOP SPLITTER

Splits one 4-20 mA, 1-5V, 0-5V or 0-10V input into four 4-20mA loops with a common ground or different grounds

QLS-1.....Loop splitter, 85-264 Vac.....\$200
QLS-2.....Loop splitter, 10-48 Vdc.....\$230

88-PRO LOOP POWERED METER

88 PRO88-PRO loop powered meter, 3.5 digit LCD display with two selectable dummy zeros, plug-in screw terminal connectors.....\$175

M35 MICROMINATURE METER

M353.5 digit microminiature meter in a 1.9" x 0.95" (48 x 24 mm) case. Process input (4-20 mA, etc), isolated 10-30 Vdc power\$200

ROTARY SIGNAL SELECTOR SWITCH

SW3P12T3-pole, 12-throw switch\$195

ACCESSORIES

LAUREATE LENS OPTIONS

NL Button pads, no Laurel logo\$5
BL No button pads, no Laurel logoNC

LAUREATE SERIAL CABLES

CBL01.....RJ11-to-DB9 cable. Connects meter to PC com port.....\$19
CBL02.....USB-to-DB9 adapter cable. Connects CBL01 to PC USB port.....\$39
CBL04.....RS232 cable. Connects transmitter to PC com port.....\$19
CBL05.....USB cable. Connects meter to PC USB port.\$15

PROTECTION FOR 1/8 DIN METERS

IPC Front panel cover, seals front of meter case to NEMA 4X\$40
BOX1 Wall mount polycarbonate enclosure sealed to NEMA 4X\$140
BOX2 Wall mount polycarbonate enclosure sealed to NEMA 4X, plus IPC cover\$180