

# Laurel Electronics

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## 2015 Customer Price List

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**Laurel Electronics, Inc.**

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# CONTENTS

## Series

## Page

### 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.

<b>L1, L2, L3, L4</b> .....	Meters for DC, AC, voltage, current, process, strain gauge, load cell, TC, RTD, ohms.....	<b>3</b>
<b>L5, L6, L7, L8</b> .....	Counters for frequency, rate, total, time, batch, quadrature, draw, ratio, analog total .....	<b>4</b>
<b>LW</b> .....	Scale meter for weighing applications. Net and gross weight, tare, count-by, auto zero .....	<b>5</b>
<b>L5, L6</b> .....	Serial input meter and remote display. Offers dual relays and analog output.....	<b>5</b>

### 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.

<b>LT2 &amp; LT4</b> .....	Transmitters, analog input, 4-20 mA and serial data outputs, dual relays.....	<b>6</b>
<b>LT6 &amp; LT8</b> .....	Transmitters, pulse inputs, 4-20 mA and serial data outputs, dual relays .....	<b>7</b>
<b>LTS6</b> .....	Serial data input, 4-20 mA analog output, dual relays (serial-to-analog converter) .....	<b>7</b>
<b>QLS</b> .....	Quad loop splitter. Splits one 4-20 mA or 0-10V input into four 4-20 mA current loops.....	<b>10</b>
<b>LTNET485</b> .....	Interfaces Ethernet to up to 31 Laureate meters and transmitters on an RS485 bus. ....	<b>10</b>

### MAGNA SERIES LARGE DIGIT DISPLAYS

Digit heights from 2" to 8". Serial, process, strain gauge, TC, or RTD inputs. Also available as a clock, timer, totalizer, or frequency/rate meter.

<b>MAGNA 2"</b> .....	2-inch large-digit displays, NEMA 4X.....	<b>8</b>
<b>MAGNA 4"</b> .....	4-inch large-digit displays, NEMA 4X.....	<b>8</b>
<b>MAGNA 6"</b> .....	6-inch large-digit displays, NEMA 4X.....	<b>9</b>
<b>MAGNA 8"</b> .....	8-inch large digit displays, NEMA 4X.....	<b>9</b>

### OTHER DIGITAL & BAR GRAPH METERS

<b>BAR</b> .....	Bar graph display, 30 LED elements, horizontal or vertical mount, 1/8 DIN.....	<b>10</b>
<b>PRO-BAR</b> .....	Large bar graph display, 251 mm (10") scale length, 50 LED elements .....	<b>10</b>
<b>88PRO</b> .....	Loop-powered process meter, 4-20 mA or 10-50 mA, 3.5 digits, 1/8 DIN.....	<b>10</b>
<b>M35</b> .....	Micro-miniature, 24 x 48 mm, process inputs, isolated 10-30 Vdc power .....	<b>10</b>

### METER ACCESSORIES

<b>NL &amp; BL</b> .....	Laureate meter lens options without logo or button pads .....	<b>11</b>
<b>CBL</b> .....	Computer interface cables for Laureate meters, counters and transmitters.....	<b>11</b>
<b>IPC, BOX</b> .....	Environmental enclosures and splash-proof cover for 1/8 DIN case.....	<b>11</b>

### 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. Accessories are separated by a comma.

**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. Not applicable to temperature.

**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 A 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 with dual RJ11 ..... \$80  
 4 ..... RS485 with dual RJ45 ..... \$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 ETL certified to ± 300 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 (range ETL certified to 300 V) ..... \$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 ..... \$60

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 631°C ..... NC  
 P392F ..... Pt 100 Ω platinum, -331 to 1168°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 (factory special fixed range) ..... \$25

**Options & Accessories. Please see page 11.**

## 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 with dual RJ11.....\$80  
4.....RS485 with dual RJ45.....\$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

Positional 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 11.

**SERIAL INPUT METER / REMOTE DISPLAY**

L ..... Laureate meter ..... \$180

**Display Color**5 ..... Remote display with green LEDs ..... NC  
6 ..... Remote display with red LEDs ..... NC**Power**0 ..... 85-264 Vac or 90-300 Vdc ..... NC  
1 ..... 12-32 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**1 ..... RS232 ..... \$60  
2 ..... RS485 with dual RJ11 ..... \$80  
4 ..... RS485 with dual RJ45 ..... \$90  
5 ..... USB ..... \$60  
6 ..... USB to RS485 converter ..... \$100  
7 ..... Ethernet ..... \$120  
8 ..... Ethernet-to-RS485 converter ..... \$150**Options & Accessories.** Please see page 11.**LAUREATE SCALE / WEIGHING METER**

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

**Display Color**1 ..... Basic meter with green LEDs ..... NC  
2 ..... Basic meter with red LEDs ..... NC**Power**0 ..... 85-264 Vac or 95-300 Vdc ..... NC  
1 ..... 12-32 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 ..... 4-20 mA, 0-20 mA, 0-10V ..... \$90**Serial Communications**0 ..... None ..... NC  
1 ..... RS232 ..... \$60  
2 ..... RS485 with dual RJ11 ..... \$80  
4 ..... RS485 with dual RJ45 ..... \$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**Process Signals (4-20mA, 0-5V, etc.)**P ..... 4-20 mA = 0-100.00 display ..... NC  
P1 ..... Custom scaling ..... \$10

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

**Strain Gauges, Potentiometers (4-wire ratio)**SG ..... 0-200 mV = 0-100.00 display ..... NC  
SG1 ..... Custom scaling ..... \$10

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

**Load Cells (6-wire ratio)**

WM1 ..... -99,999 to +99,999 ..... \$60

Specify min signal &amp; reading, max signal &amp; reading. Full scale input 20 mV to 500 mV. Includes 10 Vdc excitation.

**Add-on Options & Accessories.** Please see page 11.

**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 .....	4-20 mA & RS232/RS485.....	\$235
LTE .....	4-20 mA & Ethernet.....	\$295

LTE is a new product available in May 2013.

**Main Board**

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

"Extended" adds 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
2 .....	Power over Ethernet (for LTE only) .....	\$30

**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 ETL certified to ± 300V).....	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 (range ETL certified to 300V) .....	\$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 .....	\$60
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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 631°C.....	NC
P392F .....	Pt 100 Ω platinum, -331 to 1168°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 11.**

## 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** ..... 4-20 mA & RS232/RS485 ..... \$235  
**LTE** ..... 4-20 mA & Ethernet ..... \$295

*LTE is a new product available in May 2013.*

### 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  
**2** ..... Power over Ethernet (for LTE only) ..... \$30

### 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 11.

## LAUREATE TRANSMITTER, SERIAL DATA INPUT

Converts a 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** ..... RS232/RS485 in, 4-20 mA out ..... \$175  
**LTSE6** ..... Ethernet in, 4-20 mA out ..... \$235

*LTSE6 is a new product available in May 2013.*

### Power

**0** ..... 85-264 Vac or 95 to 300 Vdc ..... NC  
**1** ..... 12-32 Vac or 10-48V dc ..... \$30  
**2** ..... Power over Ethernet (for LTSE6 only) ..... \$30

**Add-on Options & Accessories.** Please see page 11.

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

**MAGNA SERIES 2-INCH DISPLAYS**

M2 ..... Display with 2" (57 mm) digits ..... \$600

**Display Brightness**0 ..... Normal indoor brightness ..... NC  
1 ..... Daylight viewing brightness ..... \$270**Power**0 ..... 95-265 Vac ..... NC  
1 ..... 11-30 Vdc ..... \$105**Setpoint Output**0 ..... None ..... NC  
1 ..... 2 5A @ 250Vac relays (6 digit) ..... \$70  
2 ..... 4 5A @ 250Vac relays (6 digit) ..... \$95  
3 ..... 2 5A @ 250Vac relays (4 digit) ..... \$125  
4 ..... 4 5A @ 250Vac relays (4 digit) ..... \$150**Analog Output**0 ..... None ..... NC  
1 ..... 4-20mA ..... \$90  
2 ..... 0-10V ..... \$90  
3 ..... -10 to 10V ..... \$150**Digital Output**0 ..... None ..... NC  
1 ..... RS232 ..... \$80  
2 ..... RS485 ..... \$115**Mounting Options**1 ..... Black case, panel mount ..... \$90  
2 ..... Black case, wall mount ..... NC  
3 ..... Black case, suspension mount ..... NC**Input Type****Serial ASCII Input, RS232 or RS485**SER24 ..... RS232, 4 digits ..... \$85  
SER26 ..... RS232, 6 digits ..... \$405  
SER44 ..... RS485, 4 digits ..... \$120  
SER46 ..... RS485, 6 digits ..... \$440**Temperature**

TEMP4 ..... TC and RTD, 4 digits ..... \$270

**Clock/Timer**CLK4 ..... 4 digits, HH:MM, MM:SS ..... \$135  
CLK6 ..... 6 digits, HH:MM:SS ..... \$475**Process Signals (4-20mA, 0-5V, etc.)**P4 ..... 4 digits, 4-20mA, 0-10V ..... \$100  
P6 ..... 6 digits, 4-20mA, 0-10V ..... \$420**Strain Gauges**WM4 ..... 4 digits, 0-20 mV ..... \$125  
WM6 ..... 6 digits, 0-20 mV ..... \$445**Frequency, Rate, Total, Quadrature**FR4 ..... 4 digit display ..... \$115  
FR6 ..... 6 digit display ..... \$440  
MRP ..... MAGNA Remote Programmer ..... \$150**MAGNA SERIES 4-INCH DISPLAYS**

M4 ..... Display with 4" (102 mm) digits ..... \$905

**Display Brightness**0 ..... Normal indoor brightness ..... NC  
1 ..... Daylight viewing brightness ..... \$270**Power**0 ..... 95-265 Vac ..... NC  
1 ..... 11-30 Vdc ..... \$105**Setpoint Output**0 ..... None ..... NC  
1 ..... Two 5A@250Vac relays ..... \$70  
2 ..... Four 5A @ 250Vac relays ..... \$95**Analog Output**0 ..... None ..... NC  
1 ..... 4-20mA ..... \$90  
2 ..... 0-10V ..... \$90  
3 ..... -10 to 10V ..... \$150**Digital Output**0 ..... None ..... NC  
1 ..... RS232 ..... \$80  
2 ..... RS485 ..... \$115**Mounting Options**1 ..... Black case, panel mount ..... \$90  
2 ..... Black case, wall mount ..... NC  
3 ..... Black case, suspension mount ..... NC**Input Type****Serial ASCII Input, RS232 or RS485**SER24 ..... RS232, 4 digits ..... \$85  
SER26 ..... RS232, 6 digits ..... \$515  
SER44 ..... RS485, 4 digits ..... \$120  
SER46 ..... RS485, 6 digits ..... \$550**Temperature**

TEMP4 ..... TC and RTD, 4 digits ..... \$270

**Clock/Timer**CLK4 ..... 4 digits, HH:MM, MM:SS ..... \$135  
CLK6 ..... 6 digits, HH:MM:SS ..... \$475**Process Signals (4-20mA, 0-5V, etc.)**P4 ..... 4 digits, 4-20mA ..... \$100  
P6 ..... 6 digits, 4-20mA ..... \$530**Strain Gauges**WM4 ..... 4 digits, 0-20 mV , 0-10V ..... \$125  
WM6 ..... 6 digits, 0-20 mV, 0-10V ..... \$555**Frequency, Rate, Total, Quadrature**FR4 ..... 4 digit display ..... \$115  
FR6 ..... 6 digit display ..... \$550  
MRP ..... MAGNA Remote Programmer ..... \$150**MAGNA orders are non-cancelable, non-returnable.**



**MAGNA SERIES 6-INCH DISPLAYS**

M6 ..... Display with 6" (144 mm) digits ..... \$1605

**Display Brightness**

0 ..... Normal indoor brightness ..... NC  
 1 ..... Daylight viewing brightness ..... \$270

**Power**

0 ..... 95-265 Vac ..... NC  
 1 ..... 11-30 Vdc ..... \$105

**Setpoint Output**

0 ..... None ..... NC  
 1 ..... Two 5A@250Vac relays ..... \$70  
 2 ..... Four 5A @ 250Vac relays ..... \$95

**Analog Output**

0 ..... None ..... NC  
 1 ..... 4-20mA ..... \$90  
 2 ..... 0-10V ..... \$90  
 3 ..... -10 to 10V ..... \$150

**Digital Output**

0 ..... None ..... NC  
 1 ..... RS232 ..... \$80  
 2 ..... RS485 ..... \$115

**Mounting Options**

1 ..... Black case, panel mount ..... \$90  
 2 ..... Black case, wall mount ..... NC  
 3 ..... Black case, suspension mount ..... NC

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

SER24 ..... RS232, 4 digits ..... \$85  
 SER26 ..... RS232, 6 digits ..... \$280  
 SER44 ..... RS485, 4 digits ..... \$120  
 SER46 ..... RS485, 6 digits ..... \$315

**Temperature**

TEMP4 ..... TC and RTD, 4 digits ..... \$270

**Clock/Timer**

CLK4 ..... 4 digits, HH:MM, MM:SS ..... \$135  
 CLK6 ..... 6 digits, HH:MM:SS ..... \$350

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

P4 ..... 4 digits, 4-20mA, 0-10V ..... \$100  
 P6 ..... 6 digits, 4-20mA, 0-10V ..... \$320

**Strain Gauges**

WM4 ..... 4 digits, 0-20 mV ..... \$125  
 WM6 ..... 6 digits, 0-20 mV ..... \$320

**Frequency, Rate, Total, Quadrature**

FR4 ..... 4 digit display ..... \$115  
 FR6 ..... 6 digit display ..... \$320  
 MRP ..... MAGNA Remote Programmer ..... \$150

*MAGNA orders are non-cancelable, non-returnable.*

**MAGNA SERIES 8-INCH DISPLAYS**

M8 ..... Display with 8" (200 mm) digits ..... \$1940

**Display Brightness**

0 ..... Normal indoor brightness ..... NC  
 1 ..... Daylight viewing brightness ..... \$270

**Power**

0 ..... 95-265 Vac ..... NC  
 1 ..... 11-30 Vdc ..... \$105

**Setpoint Output**

0 ..... None ..... NC  
 1 ..... Two 5A@250Vac relays ..... \$70  
 2 ..... Four 5A @ 250Vac relays ..... \$95

**Analog Output**

0 ..... None ..... NC  
 1 ..... 4-20mA ..... \$90  
 2 ..... 0-10V ..... \$90  
 3 ..... -10 to 10V ..... \$150

**Digital Output**

0 ..... None ..... NC  
 1 ..... RS232 ..... \$80  
 2 ..... RS485 ..... \$115

**Mounting Options**

1 ..... Black case, panel mount ..... \$90  
 2 ..... Black case, wall mount ..... NC  
 3 ..... Black case, suspension mount ..... NC

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

SER24 ..... RS232, 4 digits ..... \$85  
 SER26 ..... RS232, 6 digits ..... \$300  
 SER44 ..... RS485, 4 digits ..... \$120  
 SER46 ..... RS485, 6 digits ..... \$330

**Temperature**

TEMP4 ..... TC and RTD, 4 digits ..... \$270

**Clock/Timer**

CLK4 ..... 4 digits, HH:MM, MM:SS ..... \$135  
 CLK6 ..... 6 digits, HH:MM:SS ..... \$290

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

P4 ..... 4 digits, 4-20mA, 0-10V ..... \$100  
 P6 ..... 6 digits, 4-20mA, 0-10V ..... \$340

**Strain Gauges**

WM4 ..... 4 digits, 0-20 mV ..... \$125  
 WM6 ..... 6 digits, 0-20 mV ..... \$340

**Frequency, Rate, Total, Quadrature**

FR4 ..... 4 digit display ..... \$115  
 FR6 ..... 6 digit display ..... \$330  
 MRP ..... MAGNA Remote Programmer ..... \$150

*MAGNA orders are non-cancelable, non-returnable.*

**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 .....\$86  
**1** .....Wall .....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.

**BAR and PRO-BAR orders are non-cancelable, non-returnable.**

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

**M35 MICROMINATURE METER**

**M35** .....3.5 digit microminature 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

**ETHERNET TO RS485 CONVERTER**

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

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

## ACCESSORIES

### LAUREATE LENS OPTIONS

<b>NL</b> .....	Button pads, no Laurel logo.....	\$5
<b>BL</b> .....	No button pads, no Laurel logo .....	\$5

### PROTECTION FOR 1/8 DIN METERS

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

## LAUREATE SERIAL CABLES

<b>CBL01</b> .....	RJ11-to-DB9 cable. Connects RS232 port of PC to RS232 port of meter.....	\$19
<b>CBL02</b> .....	USB-to-DB9 adapter cable. The combination of CBL01 and CBL02 connects USB port of PC to RS232 port of meter .....	\$39
<b>CBL03-1</b> ..	6-wire data cable, 1 ft, with RJ11 connectors. Used to daisy chain meters via RS485.....	\$8
<b>CBL03-7</b> ..	6-wire data cable, 7 ft, with RJ11 connectors. Used to daisy chain meters via RS485.....	\$8
<b>CBL04</b> .....	RS232 cable. Connects RS232 port of PC to RS232 port of LT transmitter .....	\$19
<b>CBL05</b> .....	USB cable, A-B,. Connects USB port of PC to USB port of meter .....	\$15
<b>CBL06</b> .....	USB-to-RS485 adapter cable for meters. Connects USB port of PC to meter with RS485 option with dual RJ11 jacks.....	\$39