The award-winning iSeries meters and controllers now feature a new **BIG Display**.

Like all iSeries meters, the new BIG Display can be programmed to change colors between **RED**, **AMBER**, and **GREEN** at any set point or alarm point. For example, the instrument can be programmed to display the process value in **GREEN** during warm-up, switching to **AMBER** to signal the normal operating range, and in **RED** to signal an alarm condition.

The changes in color are quickly seen from a distance, and equipment operators can intuitively react to changing conditions.

The **BIG Display** can be mounted flush in a panel or surface mounted with the included brackets. The entire **BIG Display** enclosure provides NEMA 4/65 protection. Whether panel-mounted or surface-mounted, the **BIG Display** does not need to go inside a bulky and expensive NEMA enclosure.
The BIG Displays can handle a wide variety of signal inputs directly from transducers or process transmitters as well as display data transmitted from other NEWPORT devices via Serial Communications or Ethernet.

The "Universal Temperature + Process BIG Display" is designed for Thermocouples, RTD’s, and Process (DC) Voltage or Current. It handles TEN (10) thermocouple types: K, J, T, E, R, S, B, C, N, & J DIN. It works with a wide selection of RTD’s, both Pt. 0.00385 and 0.00392 curves for 100 Ohm, 500 Ohm, and 1000 Ohm and it measures with 2, 3, or 4 wire connections for the highest accuracy. This model also measures process voltage: 0-100 mV, 0-1 Volt, 0-10 Volt ranges and process current, 0-20 mA (4-20 mA) with built-in excitation of 10 Vdc and 24 Vdc standard.

The "Universal Strain + Process BIG Display" handles a wide variety of DC voltage and current outputs from all common load cells, pressure transducers, and most any strain gauge type of transducer. The meter measures input ranges of 0 to 100 mV, -100 mV to 1V, 0 to 10 V, 0-20 mA (4-20 mA) with built-in excitation of 5 Vdc and 10 Vdc standard. This model also features Ten (10) Point Linearization enabling accurate measurements from a wide assortment of unique and nonlinear transducers.

Totally Programmable Color Display

The "AC BIG Displays" provide accurate isolated measurement of AC Voltage and Current signals. The AC Voltage model can be scaled for ranges from 0-400mVAC through 0-400VAC. The AC Current model covers ranges from 0-10 mA through 0-5 Amps AC.

The "Frequency Pulse BIG Display" provides accurate isolated measurement of frequency (from 200 Hz to 50 kHz) and pulse signals (up to 200M pulses full scale) that can be scaled to any engineering units.

The "Ethernet BIG Display" can display data transmitted via an Ethernet Network or via serial communications from NEWPORT instruments, from a computer, or from other devices which transmit ASCII data via RS-232, RS-422, or RS-485. The Ethernet BIG Display is compatible with virtually all Newport devices that feature serial communications including: iSeries meters and controllers, INFINITY® Series digital panel meters, MICRO-INFINITY® controllers, iDRX & iDRN DIN-RAIL mounted signal conditioners, and many more.

The BIG Displays are easy to configure and scale to virtually any engineering units with the push buttons on the front panel, or with a personal computer using the free configuration software and the optional Ethernet connectivity or Serial Communications. The Ethernet option allows the device to be connected on a standard Ethernet network and communicates using standard TCP/IP protocol.

The Ethernet option also includes RS-485 (and RS-422) Serial Communications. The serial communications option includes both RS-232 and RS-485 (and RS-422) on one instrument. It communicates with a straightforward ASCII communicates protocol, as well as MODBUS protocol.

The BIG Display features a choice of two optional outputs: Form C SPDT (single pole double throw) mechanical relays, Solid State Relays, DC pulse, and/or programmable analog output selectable as either a controlling function or as retransmission of the process value.

The new iSeries are the world's first Panel Meters and Controllers with an embedded Web Server and can connect directly to Ethernet/Internet. You can "see" your meter and control your process through a web browser over the Internet from halfway around the world. With the new BIG Display, you can also see your meter from a hundred feet away.
Universal Temperature & Process Input (Model UTP)

- **Accuracy:** ±0.5°C temp; 0.03% reading
- **Resolution:** 1°/0.1°; 10 µV process
- **Temperature Stability:**
  1) RTD: ±0.04°C/°C
  2) TC @ 25°C (77°F): ±0.05°C/°C - Cold Junction Compensation
  3) Process: ±0.01°C
- **CMRR:** 50 ppm/°C
- **Temperature Stability:**
  1) RTD: 0.04°C/°C
  2) TC @ 25°C: 0.05°C/°C - Cold
  3) Process: 50 ppm/°C
- **Resolution:** 0.001
- **Decimal Selection:** Unipolar
- **Polarity:** Unipolar
- **Configuration:** Linearization Points: 1 Mohm for 1 V or 10 Vdc

Ethernet, Serial Communications Input (Model EI)

- **Input Types:** Analog Voltage, Analog Current
- **Analog Voltage:** -100 mVdc to 1 Vdc, 0 to 10 Vdc
- **Sampling:** 3 samples per second
- **Digital Filter:** Programmable
- **Frequency:** 10/1µV
- **Input Impedance:** 1 Mohm for 1 or 10 Vdc
- **Voltage Input:** 0 to 100 mV, 0 to 1 V, 0 to 10 Vdc
- **Input Impedance:** 10 Mohm for 100 mV, 1 Mohm for 1 or 10 Vdc
- **Current Input:** 0 to 20 mA (5 ohm load)
- **Configuration:** Single-ended
- **Polarity:** Unipolar
- **Step Response:** 0.7 sec for 99.99% of the final value
- **Gain Selection:** None, 0.1, 0.01 or 0.001
- **Zero Adjustment:** 1999 to 9999 cts
- **Span Adjustment:** 0.001 to 999999 cts
- **Offset Adjustment:** 1999 to 9999

Universal Strain & Process Input (Model SP)

- **Accuracy:** 0.03% reading
- **Resolution:** 10/1µV
- **Temperature Stability:** ±0.02% of full scale; ±0.002°CMEM
- **CMRR:** 100 dB
- **A/D Conversion:** Dual slope
- **Read Rate:** 3 samples per second
- **Digital Filter:** Programmable
- **Input Impedance:** Analog Voltage, Analog Current
- **Frequency:** 10/1µV
- **Input Impedance:** 100 mVdc to 1 Vdc, 0 to 10 Vdc
- **Input Impedance:** 10 Mohm for 100 mV, 1 Mohm for 1 or 10 Vdc
- **Current Input:** 0 to 20 mA (5 ohm load)
- **Linearization Points:** Up to 10 Linearization Points
- **Configuration:** Single-ended
- **Polarity:** Unipolar
- **Step Response:** ±50 ppm/°C
- **Gain Selection:** None, 0.1, 0.01 or 0.001
- **Zero Adjustment:** 1999 to 9999 cts
- **Span Adjustment:** 0.001 to 999999 cts
- **Offset Adjustment:** 1999 to 9999

Frequency Pulse Input (Model FP)

- **Input Types:** Min. level signal input (magnetic pickups): From 0 mV to 120 mV
- **Open Collector NPN
- **Open Collector PNP
- **TTL/CMOS Input
- **NAMUR Sensors:** 8.2 V Excitation

Operating Modes:

- **Frequency:**
  - Range = 0.2 Hz to 50 KHz
  - Resolution = 0.00001 Hz
  - 10 to 9999 Hz
  - 100 to 99999 Hz
  - 1000 to 999999 Hz
  - 10000 to 500000.0 Hz
  - 50 to 50000 Hz

- **Totalize with Reset:** Range = 0 to 999999
  - A-B Totalize (reset input used as a +A input): Range = -9999 to 999999
  - Quadrature (reset input used as second input): Range = 9999 to 999999

- **Resolution:** 1 count

- **Input Impedance:** Input: 1 Mohm to +EXC; Reset: 100K to +5V

- **Isolation:** Dielectric strength to 1000 Vrms transient per 1 min. test based on EN 61010 for 50 Vdc or Vrms working voltage

- **Frequency Over-Voltage Protection:**
  - With 1 K pull down; 14V; With 3K pull up: 20V; Without pull up/down: 60V
  - Temperature Stability: ±50 ppm/°C
  - Time base stability: ±1 ppm/°C
  - Step response for RS485 Output: 0.1 second to 99% of the final value

- **Accuracy at 25°C:** ±0.1% of FS Crystal time base accuracy: ± 50 ppm

- **Networking:**
  - Ethernet: Standards Compliance IEEE 802.3 10Base-T
  - Supported Protocols: TCP/IP, ARP, HTTP/GET
  - RS-232/RS-422/RS-485
  - HTTP Port number: 80
  - Socket Port number: 1023
  - Network Interface: 10Base-T

- **Communication:**
  - Data Format: 1200, 2400, 4800, 9600, 19200 bps
  - Flow Control: None, 0.1, 0.01 or 0.001
  - Data Format: 7E1-7 bit: Even, 1 stop bit
  - 7O1-7 bit: Odd, 1 stop bit
  - Modem: Full or half duplex
  - Buffer: 256, 512, 1024, 2048
  - RS-485: Programming selectable from menu.
  - Modbus protocol selectable from menu.

- **Alarm:**
  - Ethernet, Serial Communications
  - Alarms 1 and 2 programmable, default values: none or max/min/actual value

- **For More Details:**
  - Ethernet: Programmable for TCP/IP, ARP, HTTP/GET
  - RS-232/RS-422/RS-485 MODBUS: Selectable from menu; both ASCII and modbus protocol selectable from menu.

- **Configuration:**
  - Power to Analog output/communication input: 1000
  - Analog to Digital Technique: Dual slope
  - Frequency: 3 readings/sec.
  - Accuracy: ±0.2% of FS; 30 Hz to 1 KHz
  - Range = 0 to 999999

- **Frequency:**
  - Range = 0.2 Hz to 50 KHz
  - Resolution = 0.00001 Hz
  - 10 to 9999 Hz
  - 100 to 99999 Hz
  - 1000 to 999999 Hz
  - 10000 to 500000.0 Hz
  - 50 to 50000 Hz

- **Totalize with Reset:** Range = 0 to 999999

- **A-B Totalize (reset input used as a +A input): Range = -9999 to 999999
  - Quadrature (reset input used as second input): Range = 9999 to 999999

- **Resolution:** 1 count

- **Input Impedance:** Input: 1 Mohm to +EXC; Reset: 100K to +5V

- **Isolation:** Dielectric strength to 1000 Vrms transient per 1 min. test based on EN 61010 for 50 Vdc or Vrms working voltage

- **Frequency Over-Voltage Protection:**
  - With 1K pull down; 14V; With 3K pull up: 20V; Without pull up/down: 60V
  - Temperature Stability: ±50 ppm/°C
  - Time base stability: ±1 ppm/°C
  - Step response for RS485 Output: 0.1 second to 99% of the final value (Filter time constant = 0, Gate time = 0.05 Sec)
Ordering Example: iLD24-UTP is a Large 2.25" display, Universal Temperature/Process Monitor $795

Network Options cannot be combined. Contact sales for custom Control or Alarm Outputs.

To Order (Specify Model No.)

Basic Model | Description | Price
--- | --- | ---
**UNIVERSAL TEMPERATURE THERMOCOUPLE, RTD + PROCESS INPUT**
iLD24-UTP | 2.25" 4-digit display, Universal Temperature/Process, Monitor/Controller | 795
iLD44-UTP | 4" 4-digit display, Universal Temperature/Process, Monitor/Controller | 995

**STRAIN GAUGE + PROCESS INPUT**
iLD24-SP | 2.25" 4-digit display, Strain Gauge/Process, Monitor/Controller | 795
iLD44-SP | 4" 4-digit display, Strain Gauge/Process, Monitor/Controller | 995

**CONTROL OUTPUTS for UTP & SP INSTRUMENTS**
-33 | 2 relays: Form "C" SPDT 3A @ 120/240 Vac. (Available on UTP and SP models only) | 100

**NETWORK OPTIONS for UTP & SP INSTRUMENTS**
-C24 | Isolated RS-232 and RS-485/422 with baud rate from 300 to 19.2k | 100
-C4EI | Ethernet with embedded Web Server + RS-485/422 hub for up to 31 devices | 150
-FS | Factory Scaling | N/C

**FREQUENCY/PULSE/RATE/TOTAL INPUT**
iLD24-FP | 2.25" 4-digit display with Frequency/Pulse Totalize input, RS485 Output | 795
iLD26-FP | 2.25" 6-digit display with Frequency/Pulse Totalize input, RS485 Output | 995
iLD44-FP | 4" 4-digit display with Frequency/Pulse Totalize input, RS485 Output | 995
iLD46-FP | 4" 6-digit display with Frequency/Pulse Totalize input, RS485 Output | 1,195

**AC CURRENT AND VOLTAGE INPUT**
iLD24-ACC | 2.25" 4-digit display with AC Current input, RS485 Output | 795
iLD44-ACC | 4" 4-digit display with AC Current input, RS485 Output | 995
iLD24-ACV | 2.25" 4-digit display with AC Voltage input, RS485 Output | 795
iLD44-ACV | 4" 4-digit display with AC Voltage input, RS485 Output | 995

**NETWORK OPTIONS for FP & AC INSTRUMENTS**
-C2A | RS-232 + Isolated Analog Output (replaces standard RS-485) | 100
-FS | Ethernet, RS-232, RS-485/422 Output | 100
-FS | Factory Scaling | N/C

**REMOTE DISPLAYS**
iLD24-EI | 2.25" 4-digit display with Ethernet, RS-485/422 Input | 795
iLD44-EI | 4" 4-digit display with Ethernet, RS-485/422 Input | 995
iLD26-EI | 2.25" 6-digit display with Ethernet, RS-485/422 Input | 995
iLD46-EI | 4" 6-digit display with Ethernet, RS-485/422 Input | 1,195

**SOFTWARE (Requires Network Option)**

<table>
<thead>
<tr>
<th>Software</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>OPC-SERVER LICENSE</td>
<td>OPC Server/Driver Software License</td>
</tr>
</tbody>
</table>

Ordering Example: iLD24-UTP is a Large 2.25" display, Universal Temperature/Process, Monitor $795

*Network Options cannot be combined.
Contact sales for custom Control or Alarm Outputs.
The L2Q Series and L4Q Series are multi-purpose large display digital meters, housed in extruded aluminum, suitable for panel mounting or free-standing installations. The L2Q has 2 1/4" (57 mm) digits, which are visible from 50' (15 m) away. The L4Q has 4" (102 mm) digits and can be seen from 200' (61 m). Versions are available with 3 1/2 digits (L2Q2/L4Q2) or 4 digits (L2Q9/L4Q9).

The L2Q9 and L4Q9 use the signal conditioner modules, which makes them compatible with most common sensor types. The P signal conditioner module accepts voltage inputs up to 10 Vdc or current inputs up to 50 mA. For use with millivolt sensors, such as load cells or strain gages, the S signal conditioner accepts inputs up to 500 mV. Both the P and S models are fully scalable to read out in engineering units from ±9999 counts. The S models also have a 20 Vdc power supply for transducer excitation. Additional models for J, K, and T thermocouples and 100 Ohm platinum RTDs are also available. All large displays utilize a switching power supply which enables them to operate on any ac voltage between 95 and 265 Vac and 45 to 440 Hz.

**SPECIFICATIONS**

- **Power:** 95 to 265 Vac, 45 to 440 Hz
- **Power Consumption:** 10 watts
- **Display Type:** High efficiency red LED
- **Digit Height:** L2Q: 2 1/4" (57 mm); L4Q: 4" (102 mm)
- **Operating Temperature:** 32 to 122°F (0 to 50°C) (reduced to 40°C if maximum display brightness is selected)
- **Storage Temperature:** -4 to 185°F (-20 to 85°C)
- **Humidity:** 85% RH non-condensing
- **Dimensions:** L2Q: 10.4" W x 4.7" H x 4.6" D (264 x 120 x 117 mm); L4Q: 19" W x 7" H x 4.6" D (480 x 180 x 117 mm)
- **Panel Cutout:** L2Q: 10.2" W x 4.5" H (258 x 114 mm); L4Q: 18.6" W x 6.8" H (474 x 174 mm)
- **Depth Behind Panel:** 4.2" (107 mm)
- **Weight:** L2Q: 5.5 lb. (2.5 kg); L4Q: 9.9 lb. (4.5 kg)
- **Case Material:** aluminum extrusion, black anodized finish
- **Power Connector:** IEC fused connector, 6' (1.8 m) power cord included
- **Signal Connector:** mating 9 pin sub-miniature D-type or thermocouple input socket (SMP) for signal conditioner types J, K and T, included
To Order (Specify Model No.) Prices Shown in U.S. Dollars

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2Q2-R(*)</td>
<td>3 1/2-digit large display panel meter with 2 1/4&quot; (57 mm) high digits</td>
<td>$1415</td>
</tr>
<tr>
<td>L4Q2-R(*)</td>
<td>3 1/2-digit large display panel meter with 4&quot; (102 mm) high digits</td>
<td>$2105</td>
</tr>
<tr>
<td>L2Q9-R(*)</td>
<td>4-digit large display panel meter with 2 1/4&quot; (57 mm) high digits</td>
<td>$1415</td>
</tr>
<tr>
<td>L4Q9-R(*)</td>
<td>4-digit large display panel meter with 4&quot; (102 mm) high digits</td>
<td>$2105</td>
</tr>
</tbody>
</table>

* Insert Signal Conditioner Order Code from table above.

Comes complete with power cord, mating input connectors, operator’s manual and ferrite cores.

Ordering Example: L2Q9-R-JDC1 is a 4-digit large display meter with a 2 1/4" (57 mm) high display, and type J thermocouple input with -40 to 760°C range, $1415 + 125 = $1540.

**SIGNAL CONDITIONERS**

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Order Code</th>
<th>Range</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>Process Current/Voltage</td>
<td>P</td>
<td>Scalable</td>
<td>$100</td>
</tr>
<tr>
<td>Strain Gage/Millivolt</td>
<td>S</td>
<td>Scalable</td>
<td>$175</td>
</tr>
<tr>
<td>Frequency/Rate Inputs</td>
<td>H</td>
<td>Scalable</td>
<td>$125</td>
</tr>
<tr>
<td>J Thermocouple (°F)</td>
<td>JDF1</td>
<td>-40 to 1400°F</td>
<td>$125</td>
</tr>
<tr>
<td>J Thermocouple (°C)</td>
<td>JDC1</td>
<td>-40 to 760°C</td>
<td>$125</td>
</tr>
<tr>
<td>K Thermocouple (°F)</td>
<td>KDF1</td>
<td>-40 to 1999°F</td>
<td>$125</td>
</tr>
<tr>
<td>K Thermocouple (°C)</td>
<td>KDC1</td>
<td>-40 to 1260°C</td>
<td>$125</td>
</tr>
<tr>
<td>T Thermocouple (°F)</td>
<td>TDF1</td>
<td>-300 to 700°F</td>
<td>$125</td>
</tr>
<tr>
<td>T Thermocouple (°C)</td>
<td>TDC1</td>
<td>-184 to 371°C</td>
<td>$125</td>
</tr>
<tr>
<td>RTD 1° Resolution (°F)</td>
<td>MDF1</td>
<td>-328 to 1526°F</td>
<td>$125</td>
</tr>
<tr>
<td>RTD 1° Resolution (°C)</td>
<td>MDC1</td>
<td>-200 to 830°C</td>
<td>$125</td>
</tr>
<tr>
<td>RTD 0.1° Resolution (°F)</td>
<td>RDF1*</td>
<td>-199.9 to 199.9°F</td>
<td>$125</td>
</tr>
<tr>
<td>RTD 0.1° Resolution (°C)</td>
<td>RDC1*</td>
<td>-199.9 to 199.9°C</td>
<td>$140</td>
</tr>
</tbody>
</table>

*Not recommended for use with L2Q9 or L4Q9 4-digit meters.

NOTE: Maximum temperature range for L2Q9 and L4Q9 is 999.9
The **LXS Series** are multi-purpose large displays of 4 or 6 characters which may be numeric or limited alpha type symbols. The housings are rugged aluminum extrusions suitable for panel mounting, hanging or free standing use. LXS accepts serial ASCII data from an RS-232 or RS-422/485 link at various commonly used Baud rates. The protocol supports both point to point and multidrop use, with up to 31 addresses plus a master address allowing all units to receive simultaneously. Further optional protocols accept information in the form generated by **NEWPORT’s INFINITY® Series**, Model 269 and the programmable, universal counter, timer and rate meter Model P5000.

### SPECIFICATIONS

**Display Type (LED, red) Height**: 7 segment, 57 mm, 102 mm or 144 mm  
**Display**: -9999 or -999999  
**Brightness**: Set via the serial link  
**Polarity**: LED bar indicator  
**Overload/alarm**: LED block indicator  
**Decimal Points**: Set via the serial link at any position

### POWER SUPPLY

**AC**: 95 to 265 Vac 45-440 Hz  
**Power Consumption**: 10 watts (4 digit)  
**Connectors Mains**: IEC fused ac receptacle  
**Signal**: 9 pin subminiature D connector

### ENVIRONMENTAL

**Operation Temperature**: 0-50°C  
**Storage Temperature**: -20 to + 85°C  
**Relative Humidity**: 0 to 85% (non-condensing Case option): IP65 L2S4 & L4S4 only

### MECHANICAL

**Case Material**: aluminum extrusion  
**Case Finish**: Black anodized

### WEIGHT

- **L2S4**: 2.5 Kg  
- **L2S6**: 3 Kg  
- **L4S4**: 4.5 Kg
L4S6: 6.5 Kg

**SIGNAL FORMAT**
Serial ASCII coded data string at 300, 1200, 2400 or 9600 Baud; 1 start bit, 8 data bits (or 7 bits plus parity–parity ignored) and 1, 1 1/2 or 2 stop bits. Signal inputs determined by internal jumper switches.

**TTL:** above +2 V = logic 0; below .8 V at -1 mA = logic 1

**2 mA Loop:** above 1.5 mA = logic 1; below 0.5 mA = logic 0; compliance 1 V max at 2 mA; maximum loop current 0.5 A

**20 mA Loop:** above 15 mA = logic 1; below 5 mA = logic 0; compliance 1 V max at 20 mA; maximum loop current 0.5 A

**Bipolar ±5 V RS423:** above +0.5 V = logic 1; below 0V = logic 0; open line = space, loading between 4 and 10 kilohms; maximum input ±7 volts

**Bipolar ±15 V:** above +3 V = logic 1; below -3 V = logic 0; open line = space, loading between 4 and 7 kilohms; maximum input ±30 volts

**Differential RS422/485:** Diff. threshold less than ±0.2 V; hysteresis 50 mV typical, loading 12 kilohms minimum diff. input ±12 V; maximum voltage relative to signal common +12/-7V

**Termination Received Loop Source:** 120 ohms jumper switchable; 2 mA or 20 mA ±20%; open circuit voltage 5 V ±5%; compliance at 2 or 20 mA 3.5 V min.

To Order (Specify Model No.) Prices Shown in U.S. Dollars

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2S4-R</td>
<td>4-digit LED display with 2 1/4&quot; high digits</td>
<td>$1250</td>
</tr>
<tr>
<td>L2S6-R</td>
<td>6-digit LED display with 2 1/4&quot; high digits</td>
<td>$1385</td>
</tr>
<tr>
<td>L4S4-R</td>
<td>4-digit LED display with 4&quot; high digits</td>
<td>$1940</td>
</tr>
<tr>
<td>L4S6-R</td>
<td>6-digit LED display with 4&quot; high digits</td>
<td>$2350</td>
</tr>
<tr>
<td>A9</td>
<td>NEMA-4 housing for L2S4-R</td>
<td>$285</td>
</tr>
<tr>
<td>A10</td>
<td>NEMA-4 housing for L2S6-R, L4S4-R</td>
<td>$430</td>
</tr>
</tbody>
</table>
L2C / L4C - Large Clock Display

L2C / L4C

The L2C and L4C are dedicated large display clocks, which can be configured for real-time or elapsed time indication. Four-digit or 6-digit units are available offering displays indicating minutes/seconds or hours/minutes (4-digit) and hours/minutes/seconds or days/hours/minutes (6-digit).

Remote controls and preset capability along with an alarm output make the run time clock an ideal process timer. An RS-232-C output of the display is provided to permit connection of a number of slave clock displays to a master clock with only 3 wires.

SPECIFICATIONS

Resolution: One (1) minute or one (1) second (jumper-selectable)
Time Setting: By internal pushbuttons or external volt-free contacts to advance hours and minutes
Control Lines: 3 independent opto-isolated lines
Sensitivity: 4-50 Vdc
Functions: 4 modes (user-selectable): 1- Start, stop, reset (3 lines) 2- Run/stop, reset (2 lines) 3- Reset/run/stop (1 line) 4- Reset/start, stop (2 lines)
Count Modes: 2 each - user-selectable: 1- Count-up, reset to zero (count to preset value) 2- Countdown, reset to preset value (count to zero)
Presetting: Via internal pushbutton or external volt-free contacts
Alarm Output: Open-collector 30 volts @ 50 mA maximum
Power: Switching power supply accepting 95 Vac to 265 Vac

To Order (Specify Model No.) Prices Shown in U.S. Dollars

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2C-0-R-0</td>
<td>4-digit LED display with 2 1/4&quot; high digits</td>
<td>$1315</td>
</tr>
<tr>
<td>L2C-2-R-0</td>
<td>6-digit LED display with 2 1/4&quot; high digits</td>
<td>$1450</td>
</tr>
<tr>
<td>L4C-0-R-0</td>
<td>4-digit LED display with 4&quot; high digits</td>
<td>$1995</td>
</tr>
<tr>
<td>L4C-2-R-0</td>
<td>6-digit LED display with 4&quot; high digits</td>
<td>$2415</td>
</tr>
<tr>
<td>A9</td>
<td>NEMA-4 housing for L2C-0-R-0</td>
<td>$285</td>
</tr>
<tr>
<td>A10</td>
<td>NEMA-4 housing for L2C-0-R-0, L4C-0-R-0</td>
<td>$430</td>
</tr>
</tbody>
</table>

Ordering Example: L4C-0-R-0 is a 4-digit clock display with 4" high digits, $1995.
The **LXP Series** are multi-purpose large displays of 4 or 6 characters which may be numeric or limited alpha type symbols. The housings are rugged aluminum extrusions suitable for panel mounting, hanging or free standing use.

### SPECIFICATIONS

**Display Type (LED, red) Height:** 7 segment, 57 mm, 102 mm or 144 mm  
**Display:** -9999 or -999999  
**Polarity:** LED bar indicator  
**Overload/alarm:** LED block indicator

**POWER SUPPLY**  
**AC:** 95 to 265 Vac 45-440 Hz  
**Power Consumption:** 10 watts (4 digit)

**CONNECTORS**  
**Power:** IEC fused ac receptacle  
**Signal:** Plug-in screw terminals

**ENVIRONMENTAL**  
**Operation Temperature:** 0-50°C  
**Storage Temperature:** -20 to + 85°C  
**Relative Humidity:** 0 to 85% (non-condensing Case option): IP65 L2P4 & L4P4 only

### MECHANICAL

**Case Material:** aluminum extrusion  
**Case Finish:** Black anodized  
**Weight:** L2P4: 2.5 Kg / L2P6: 3 Kg / L4P4: 4.5 Kg / L4P6: 6.5 Kg

**LOGIC INPUTS**  
Serial ASCII coded data string at 300, 1200, 2400 or 9600 Baud; 1 start bit, 8 data bits (or 7 bits plus parity–parity ignored) and 1, 1 1/2 or 2 stop bits. Signal inputs determined by internal jumper switches.

**To Order** (Specify Model No.) *Prices Shown in U.S. Dollars*
<table>
<thead>
<tr>
<th>Part</th>
<th>Description</th>
<th>Price</th>
</tr>
</thead>
<tbody>
<tr>
<td>L2P4-R</td>
<td>4-digit LED display with 2 1/4&quot; high digits</td>
<td>$1470</td>
</tr>
<tr>
<td>L2P6-R</td>
<td>6-digit LED display with 2 1/4&quot; high digits</td>
<td>$1605</td>
</tr>
<tr>
<td>L4S4-R</td>
<td>4-digit LED display with 4&quot; high digits</td>
<td>$2160</td>
</tr>
<tr>
<td>L4SP-R</td>
<td>6-digit LED display with 4&quot; high digits</td>
<td>$2570</td>
</tr>
<tr>
<td>A9</td>
<td>NEMA-4 housing for L2P4-R</td>
<td>$285</td>
</tr>
<tr>
<td>A10</td>
<td>NEMA-4 housing for L2P6-R, L4P4-R</td>
<td>$430</td>
</tr>
</tbody>
</table>
The **LXP Series** are multi-purpose large displays of 4 or 6 characters which may be numeric or limited alpha type symbols. The housings are rugged aluminum extrusions suitable for panel mounting, hanging or free standing use.

**SPECIFICATIONS**

**Display Type (LED, RED)**
- Height: 7 segment, 57 mm, 102 mm or 144 mm
- Display: -9999 or -999999
- Polarity: LED bar indicator
- Overload/Alarm: LED block indicator

**POWER SUPPLY**
- AC: 95 to 265 Vac 45-440 Hz
- Power Consumption: 10 watts (4 digit)

**CONNECTORS**
- Power: IEC fused ac receptacle
- Signal: Plug-in screw terminals

**ENVIRONMENTAL**
- Operation Temperature: 0-50°C
- Storage Temperature: -20 to + 85°C
- Relative Humidity: 0 to 85% (non-condensing Case option): IP65 L2P4 & L4P4 only

**MECHANICAL**
- Case Material: aluminum extrusion
- Case Finish: Black anodized
- Weight: L2T4: 2.5 Kg / L2T6: 3 Kg / L4T4: 4.5 Kg / L4T6: 6.5 Kg

**SIGNAL INPUTS**
- Threshold: Rising: +2.2V min, +3.5V max. Falling: +1V min, +2.4V max.
- Signal hysteresis: 0.4V min
- Maximum signal: ±30V
- Loading: 100kohms to common for +5V pulses
- Load: Internal 2kohm load may be internally jumpered to common or to the excitation supply for each control line.
Active Level: Internally jumpered to be active either with low level/falling edge or a high level/rising edge inputs
Debounce: Internal debounce for contact closure input restricts count rate to 10 pulses per sec.
Count rate: 20,000 pulses per second maximum gated mode, 1000 pulses per sec. up/down mode
Count Capacity: over 9 decades before scaling
Overrange: Indicator lights for 1 decade
Count store: Count is retained but not updated for 2 months minimum when power is removed
Scaling: Count is divided by a whole number from 1 to 255
Excitation supply: 8.5V ± 10% 20mA max load, 12V ± 10% 30mA max load, 24V ± 10% 50mA max load, excitation is set by jumper switch

To Order (Specify Model No.) Prices Shown in U.S. Dollars

<table>
<thead>
<tr>
<th>Model No.</th>
<th>Description</th>
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</tr>
</thead>
<tbody>
<tr>
<td>L2T4-R</td>
<td>4-digit LED display with 2 1/4&quot; high digits</td>
<td>$1345</td>
</tr>
<tr>
<td>L2T6-R</td>
<td>6-digit LED display with 2 1/4&quot; high digits</td>
<td>$1480</td>
</tr>
<tr>
<td>L4T4-R</td>
<td>4-digit LED display with 4&quot; high digits</td>
<td>$2035</td>
</tr>
<tr>
<td>L4TP-R</td>
<td>6-digit LED display with 4&quot; high digits</td>
<td>$2445</td>
</tr>
<tr>
<td>A9</td>
<td>NEMA-4 housing for L2T4-R</td>
<td>$285</td>
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<td>NEMA-4 housing for L2T6-R, L4T4-R</td>
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</tbody>
</table>

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INFINITY, L2CX, L4CX, L2PE, L4PE

P2, P5, P8, S1, TB1, TB2

INFINITY

L2CX, L4CX

L2PE, L4PE
L2P4, L4P6
TB1, TB2, TB3, TB4 (L2P6 Only), D1
### TB4 (L2P6 Only)

<table>
<thead>
<tr>
<th>MODE 0</th>
<th>MODE 4</th>
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<tbody>
<tr>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>BCD 10K</td>
<td>BIN 65536</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>BCD 20K</td>
<td>BIN 131072</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BCD 40K</td>
<td>BIN 262144</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>BCD 80K</td>
<td>BIN 524288</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>BCD 100K</td>
<td>N/C</td>
</tr>
<tr>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>BCD 200K</td>
<td>N/C</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>BCD 400K</td>
<td>N/C</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>BCD 800K</td>
<td>N/C</td>
</tr>
</tbody>
</table>

### MODE 3

<table>
<thead>
<tr>
<th>MODE 1</th>
<th>MODE 2</th>
<th>MODE 4</th>
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</thead>
<tbody>
<tr>
<td>1</td>
<td>1</td>
<td>1</td>
</tr>
<tr>
<td>BCD 100</td>
<td>BCD 100/100K</td>
<td>BIN 256</td>
</tr>
<tr>
<td>2</td>
<td>2</td>
<td>2</td>
</tr>
<tr>
<td>BCD 200</td>
<td>BCD 200/200K</td>
<td>BIN 512</td>
</tr>
<tr>
<td>3</td>
<td>3</td>
<td>3</td>
</tr>
<tr>
<td>BCD 400</td>
<td>BCD 400/400K</td>
<td>BIN 1024</td>
</tr>
<tr>
<td>4</td>
<td>4</td>
<td>4</td>
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<tr>
<td>BCD 800</td>
<td>BCD 800/800K</td>
<td>BIN 2048</td>
</tr>
<tr>
<td>5</td>
<td>5</td>
<td>5</td>
</tr>
<tr>
<td>BCD 1K</td>
<td>STROBE 2</td>
<td>BIN 4096</td>
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<tr>
<td>6</td>
<td>6</td>
<td>6</td>
</tr>
<tr>
<td>BCD 2K</td>
<td>STROBE 3</td>
<td>BIN 8192</td>
</tr>
<tr>
<td>7</td>
<td>7</td>
<td>7</td>
</tr>
<tr>
<td>BCD 4K</td>
<td>N/C</td>
<td>BIN 16384</td>
</tr>
<tr>
<td>8</td>
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<td>8</td>
</tr>
<tr>
<td>BCD 8K</td>
<td>N/C</td>
<td>BIN 32768</td>
</tr>
</tbody>
</table>

### TB3

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<tr>
<td>BCD 100</td>
<td>BIN 256</td>
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<tr>
<td>BCD 200</td>
<td>BIN 512</td>
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<tr>
<td>3</td>
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<tr>
<td>BCD 400</td>
<td>BIN 1024</td>
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<tr>
<td>BCD 800</td>
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<td>BCD 2K</td>
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<td>7</td>
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<tr>
<td>BCD 4K</td>
<td>BIN 16384</td>
</tr>
<tr>
<td>8</td>
<td>8</td>
</tr>
<tr>
<td>BCD 8K</td>
<td>BIN 32768</td>
</tr>
</tbody>
</table>
L2QX, L4QX, L2RX, L4RX, L2S4, L2S6, PID 81, 82

TB1, TB2