

# TEXMATE



LEOPARD FAMILY

## BL-40

### Leopard Panel Meter 4 Digit 0.56" LEDs in a 1/16 DIN CASE



An economically smart programmable meter relay with isolated 4 to 20 mA retransmission or control loop output capability for measurement and control applications in a 96x24mm case.

### General Features

- External transmitters or signal conditioners can be eliminated by direct connection of the sensor output to more than 38 Plug-in Input Signal Conditioners that include:
  - AC/DC Current    – Pressure                      – Resistance
  - AC/DC Voltage    – Process                              – \*Temperature
  - Load Cell        – Prototype                          – 4 to 20 mA
- \*See model BL-40H for higher accuracy digitally linearized thermocouple and RTD
- Optional isolated 16 bit analog output. User or factory scalable to 4 to 20 mA, 0 to 20 mA or 0 to 10 V across any desired digital span from  $\pm$  one count to the full scale range of – 1999 to 9999 (12000 counts).
- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC / 95-300 V DC (PS1)** or 15-48 V AC / 10-72 V DC (PS2).
- 24 V DC excitation is available to power external transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors such as Load Cells and Pressure Transducers.
- Standard red or optional green or super bright red 4-digit LED with display range –1999 to 9999 (12000 counts).
- Three annunciator LEDs provide front panel alarm status indication for up to three setpoints.
- One 9Amp Form C and one 4 Amp Form A relay, or up to three 4 Amp Form A relays are available.
- When analog output is installed, one 9 Amp Form C or two 4 Amp Form A relays can be supported.
- Automatic intelligent averaging smooths noisy signals, while providing a fast display response to real level changes.
- UL Listed

### Software Features

- Three-button programming from the front panel (UP, DOWN and PROGRAM buttons).
- Three front panel selectable ranges.
- Front panel selectable four-level brightness control of digital display, and setpoint LEDs.
- Three programmable setpoints.
- Relay activation can be selected to occur above (HI) or below (LO) each setpoint.
- Hysteresis setting for all three setpoints. Delay on make and delay on break for SP1 and SP2.
- Peak and Valley. View and Reset.

### Input Module Compatibility

- LEOPARD FAMILY:** More than 38 different Plug-in I-Series Modular Input Signal Conditioners are approved for Texmate's Leopard Family of meters.



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See [www.texmate.com](http://www.texmate.com) for an up to date listing.

### Specifications

- Input Specs:** .....Depends on input signal conditioner
- A/D Converter:**.....14 bit single slope
- Accuracy:**..... $\pm(0.05\%$  of reading + 2 counts)
- Temp. Coeff.:**.....100 ppm/ $^{\circ}$ C (Typical)
- Warm up time:**.....2 minutes
- Conversion Rate:**.....5 conversions per second (Typical)
- Display:**.....**4 digit 0.56" Red LED display (std)**,  
0.56" Red, Green or Super Bright Red (optn). Range –1999 to 9999 counts.
- Polarity:**.....Assumed positive. Displays – negative
- Decimal Selection:**.....Front panel button selectable, X•X•X•X•
- Positive Overrange:**..Top segments of digital display flash
- Negative Overrange:**..Bottom segments of digital display flash
- Relay Output:** .....Three 4 Amp Form A relays or one 9 Amp Form C, and one 5 Amp Form A relay.
- Analog Output:**.....Isolated 16 bit user scalable mA or V
  - OIC (mA out).....4-20 mA @ 0 to 500 $\Omega$  max loop resistance
  - OIV (volts out).....0-10 V DC @ 500  $\Omega$  or higher resistance
- Power Supply:**.....AC/DC Auto sensing wide range supply
  - PS1 (std)** .....**85-265 VAC 50-400Hz / 95-300 VDC @ 2.3W**
  - PS2 .....15-48 VAC 50-400Hz / 10-72 VDC @ 2.3W
- Operating Temp:**.....0 to 50  $^{\circ}$ C
- Storage Temp:**.....–20  $^{\circ}$ C to 70  $^{\circ}$ C.
- Relative Humidity:** ....95% (non condensing)
- Case Dimensions:**.....1/16 DIN Bezel 96x24mm
  - Depth behind bezel 122.2mm (4.83")
  - Plus 12.7mm (0.5") for Right-angled connectors
- Weight:**.....7 oz., 9 oz when packed