

TEXMATE



LEOPARD FAMILY

BL-40PSF

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



An economically smart meter relay with programmable scale factor and offset with isolated 4 to 20 mA output retransmission capability for measurement and control applications in a 96x48mm 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
 - AC/DC Voltage
 - Load Cell
 - Pressure
 - Process
 - Prototype
 - Resistance
 - *Temperature
 - 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 9 Amp 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 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/°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 4 Amp Form A relay.
- Analog Output:**.....Isolated 16 bit user scalable mA or V
 - OIC (mA out).....4-20 mA @ 0 to 500 Ω max loop resistance
 - OIV (volts out).....0-10 V DC @ 500 Ω or higher resistance
- Power Supply:**.....AC/DC Auto sensing wide range supply
 - PS1 (std)****85-265 VAC 50-400Hz / 95-300 VDC @ 2.3W**
 - PS215-48 VAC 50-400Hz / 10-72 VDC @ 2.3W
- Operating Temp:**.....0 to 50 °C
- Storage Temp:**.....–20 °C to 70 °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