

# TEXMATE



LEOPARD FAMILY



## BL-B51D40 Leopard Bargraph Meter 51 LED Segments in a 1/16 DIN Case

A red, 51 segment bargraph with a 4-digit LED digital display for monitoring, measurement and control applications mounted in a 24x96mm 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
- 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.
- A red, 51 segment high brightness bargraph.
- Red 4-digit LED display with a range of 1999 to 9999 (12000 counts).
- Front panel LED annunciators provide indication of setpoint status.
- Two 9 Amp Form C and two 4 Amp Form A relays available for the BL-B51D40.
- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC/95-300 V DC (PS1)**.
- Provision for external DIM switch to reduce the brightest display setting by 50%.
- Automatic intelligent averaging smooths noisy signals, while providing a fast display response to real level changes.
- UL Listed

### Software Features

- The bargraph can display, full scale, any desired portion of the digital reading.
- Bargraph center zero function.
- Four programmable setpoints.
- Setpoint 1 has delay-on-make and delay-on-break plus a special “pump on pump off” mode that creates a Hysteresis Band between SP1 and SP2.
- Relay activation can be selected to occur above (hi) or below (Lo) each setpoint.
- Digital display blanking.
- Decimal point setting.
- Four-level brightness control of the bargraph and digital display.

### Input Module Compatibility

- LEOPARD FAMILY:** More than 40 different Plug-in **I-Series** 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:** .....3 to 16 conversions per second
- Display:** .....4 digit 0.31" Red LED display (std).
- Polarity:** .....Assumed positive. Displays –ve sign.
- Decimals:** .....User programmable
- Positive Overrange:** .....Bargraph and top segments of digital display flash.
- Negative Overrange:** .....First segment of bargraph and bottom segments of digital display flash.
- Display Range:** .....–1999 to 9999 counts - 101 segment digital display  
0 to 101 segments on bargraph
- Relay Output:** .....Two 4A Form A relays.
- Power Supply:** .....AC/DC Auto sensing wide range supply  
85-265V AC / 95-300V DC@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 (3.78" x 0.95"),  
Depth behind bezel 122.2 mm (4.83")  
Plus 12.7mm (0.5") for Right-angled conn.
- Weight:** .....6.5 oz., 8.5 oz when packed.