



LEOPARD FAMILY



# TEXMATE

## FL-B101D40H

**Leopard Bargraph Temperature Meter  
101 Segment, 4 Digit 0.32" LEDs  
in a 9/64 DIN CASE**

Smart Tricolor or mono-color digital bargraph with four fully programmable set points for J, K, R, and T type thermocouples and RTD inputs.

### General Features

- Thermocouple (J, K, R and T types) or RTD (Pt-100, 385 and 392 curves, 3 wire/4wire). Digitally Linearized.
- 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).
- A Programmable Tricolor (Red-Green-Orange) or mono color (red or green), 101 segment high brightness bargraph. Vertical or optional horizontal format.
- Red 4-digit LED display with a range of -1999 to 9999 (12000 counts). Optional green digital display.
- Front panel LED annunciators provide indication of setpoint status.
- Two 9 Amp Form C, and two 4 Amp Form A relays available
- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC / 95-300 V DC (PS1)** or 18-48 V AC / 10-72 V DC (PS2).
- 24 V DC excitation is available to power external 4/20mA transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors.
- Provision to connect an external programming lockout switch.
- Provision for external DIM switch to reduce the brightest display setting by 50%.
- Optional NEMA-4 front cover.
- 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.
- 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.
- Bargraph center zero function.
- 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

There are 3 different Plug-in Modular Input Signal Conditioners for this specialized temperature only member of the Leopard Family. IT10 is for J, K, T and R thermocouples. IT11 is for 3 wire/4 wire Pt-100 RTD inputs. IT15 is for 3 wire/4 wire Pt-1000 RTD inputs.



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### 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:**.....10 conversions per second (Typical)  
**Digital Display:**.....**4 digit 0.31" LED red (std)**, green (optn)  
Range -1999 to 9999 counts.  
**Bargraph Display:**.....**101 segment 4" red vertical (std)**,  
green or tricolor (optn), horizontal (optn)  
**Polarity:**.....Assumed positive. Displays - negative  
**Decimal Selection:**.....Front panel button selectable, X•X•X•X•  
**Positive Overrange:**..Bargraph and top segments of digital display flash.  
**Negative Overrange:**..First segment of bargraph and bottom segments of digital display flash.  
**Relay Output:**.....Two 4 Amp Form A relays and Two 9 Amp Form C relays.  
**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 @ 4.2W**  
**PS2**.....18-48 VAC,50-400Hz / 10-72 VDC @ 4.2W  
**Operating Temp:**.....0 to 50 $^{\circ}$ C  
**Storage Temp:**.....-20 $^{\circ}$ C to 70 $^{\circ}$ C  
**Relative Humidity:**.....95% (non condensing)  
**Case Dimensions:**.....9/64 DIN (Bezel 36Wx144Hmm)  
Depth behind bezel (5.83") 148mm  
Plus (0.7") 18mm for connectors  
**Weight:**.....9.5 oz., 12 oz when packed