

# TEXMATE



LEOPARD FAMILY



## FL-B101D40F

### Leopard Bargraph Frequency 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 monitoring, control and frequency measurements.

#### General Features

- Frequency input. Easily user scaled.
- 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 - 9999 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 2 Plug-in Modular Input Signal Conditioners for this specialized frequency only member of the Leopard Family: IF05 & IF08.



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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 Overage:** .. Bargraph and top segments of digital display flash.  
**Negative Overage:** 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