



Large display option  
0.8" red or green LED



LEOPARD FAMILY



## DL-40

### Leopard Panel Meter 4 Digit 0.56" or 0.8" LEDs in a 1/8 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 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    – Pressure    – Resistance
  - AC/DC Voltage    – Process    – \*Temperature
  - Load Cell    – Prototype    – 4 to 20 mA
- \*See models DL-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).
- Red or green 0.8" LED large display option
- Four annunciator LEDs provide front panel alarm status indication for up to four setpoints.
- Two 9 Amp Form C and two 4 Amp Form A relays, or optionally four 4 Amp Form A relays are available.
- 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.
- Four programmable setpoints.
- Relay activation can be selected to occur above (HI) or below (LO) each setpoint.
- Hysteresis setting for all four 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** 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" or 0.8" 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:** ..... Two 4 Amp Form A relays and two 9  
Amp Form C, or 4 Amp form A relays.  
**Analog Output:** ..... Isolated 16 bit user scalable mA or V  
AIC (mA out) ..... 4-20 mA @ 0 to 500 $\Omega$  max loop resistance  
AIV (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 @ 3.5W**  
PS2 ..... 15-48 VAC 50-400Hz / 10-72 VDC @ 3.5W  
**Operating Temp.:** ..... 0 to 50  $^{\circ}$ C  
**Storage Temp.:** ..... –20  $^{\circ}$ C to 70  $^{\circ}$ C.  
**Relative Humidity:** ..... 95% (non condensing)  
**Case Dimensions:** ..... 1/8 DIN, Bezel: 96x48 mm (3.78"x1.89")  
Depth behind bezel: 117 mm (4.61")  
Plus 11.8 mm (0.47") for Right-angled  
connectors, or plus 20 mm (0.79") for  
Straight-thru connector.  
**Weight:** ..... 6.5 oz., 8.5 oz when packed