



LEOPARD FAMILY

# TEXMATE

## DL-40H

### Leopard Temperature Meter 4 Digit 0.56" or 0.8" LEDs in a 1/8 DIN CASE

Large display option  
0.8" red or green LED

An economically smart temperature meter relay 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 - 9999 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).
- Standard red or optional green or super bright red 4-digit LED
- 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 relay, or optionally four 4 Amp Form A relays are available.
- 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

There are 2 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.



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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:** .....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:**.....Automatic by resolution select XXX•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 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