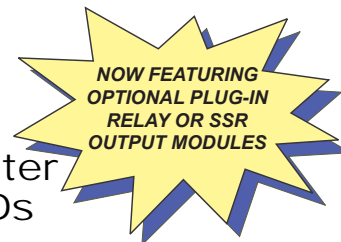




LEOPARD FAMILY

## 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 -1999 to 9999 (12000 counts).
- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC / 95-370 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 10 Amp Form C and two 5 Amp Form A relay, or optionally four 5 Amp Form A relays are available.

### 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.

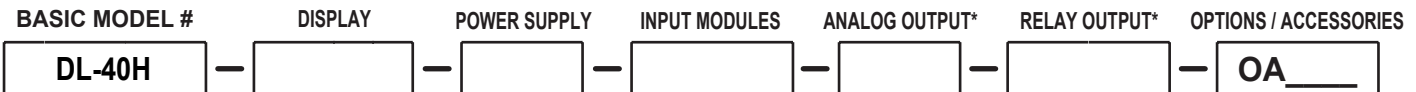


LEOPARD

### 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 5 Amp Form A relays and two 10 Amp Form C, or 5 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 / 95-370 VDC @ 2.5W max 3.5W**  
PS2 .....15-48 VAC / 10-72 VDC @ 2.5W max 3.5W
- Operating Temp.:** .....0 to 60  $^{\circ}$ 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

## Ordering Information



Add to the basic model number the order code suffix for each standard option required. The last suffix is to indicate how many different special options and or accessories that you may require to be included with this product. \*Except when when R1 or R2 relay output is selected, a meter ordered with an analog output or a relay output module requires an Output Module Carrier Board which should be automatically included with the order, with an additional charge. (See special Options and Accessories section)

Ordering Example: DL-40H-DR-PS1-IA01-AIC-R1-OA2, the 2 OA's are, CR-CHANGE and a OP-N4X/96X48

### ► BASIC MODEL NUMBER

DL-40H . . . 96x48mm, Leopard, 4 Digit, Temperature

### Standard Options for this Model Number

#### Order Code Suffix

#### Description

#### ► DISPLAY

DR . . .Red LED, 0.56 inch high  
DB . . .Super-bright Red LED, 0.56 inch high  
DG . . .Green LED, 0.56 inch high  
LG . . .Large Green LED, 0.8 inch high  
LR . . .Large Red LED, 0.8 inch high

#### ► POWER SUPPLY

PS1 . . .85 - 265VAC / 95 - 370VDC  
PS2 . . .15 - 48VAC / 10 - 72VDC

#### ► INPUT MODULES (Partial List. See [www.texmate.com](http://www.texmate.com))

Unless otherwise specified Texmate will ship all modules precalibrated with factory preselected ranges and/or scalings as shown in BOLD type.

IT10 . . .Thermocouple, J/K/R/T, Selectable °C/°F, 1°/0.1°  
IT11 . . .RTD, 100Ω Pt. Selectable 3/4-wire, °C/°F, 1°/0.1°, 385/392

#### ► ANALOG OUTPUT \*Add \$7 for an Output Module Carrier Board

AIC . . .Isolated 16 Bit Current Output, 0-20mA and 4-20mA, pls. specify  
AIV . . .Isolated 16 Bit Voltage Output, 0-10VDC

#### ► RELAY OUTPUT

Note: R1 and R2 are located on the main board, and are generally used when only two Form A Relays or less are required and an Analogy Output is not required.

R1 . . .Single 5A Form A Relay  
R2 . . .Dual 5A Form A Relays

#### ► RELAY OUTPUT MODULES

Note: If a meter is ordered with a Relay Output Module, but without Analog Output, an Output Module Carrier Board should be automatically added to the order.

OR11 . . .One 10 Amp Form C Relay, Isolated  
OR15 . . .One 10 Amp Form C and Two 5 Amps Form A Relays  
OR16 . . .One 10 Amp Form C and One 5 Amp Form A Relays  
OR12 . . .Two 10 Amp Form C Relays, Isolated  
OR14 . . .Two 10 Amp Form C and Two 5 Amps Form A Relays  
OR23 . . .Two 10 Amp Form C and One 5 Amp Form A Relay, Isolated  
OR31 . . .One 5 Amp Form A Relay, Isolated  
OR32 . . .Two 5 Amp Form A Relays, Isolated  
OR33 . . .Three 5 Amp Form A Relays, Isolated  
OR34 . . .Four 5 Amp Form A Relays, Isolated

#### Solid State Relay (SSR) Output Modules DC Only

OR51 . . .One 400V DC Solid State Relay (SSR) 210mA  
OR52 . . .Two 400V DC Solid State Relays (SSR) 210mA  
OR53 . . .Three 400V DC Solid State Relays (SSR) 210mA  
OR54 . . .Four 400V DC Solid State Relays (SSR) 210mA

#### Solid State Relay (SSR) Output Modules AC/DC

OR61 . . .One 400V AC/DC Solid State Relay (SSR) 140mA  
OR62 . . .Two 400V AC/DC Solid State Relays (SSR) 140mA  
OR63 . . .Three 400V AC/DC Solid State Relays (SSR) 140mA  
OR64 . . .Four 400V AC/DC Solid State Relays (SSR) 140mA

### Special Options and Accessories (OA's)

#### Part Number

#### Description

#### ► SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading) Output Module Carrier Board

\*One carrier board must be ordered with any meter that includes any one or more of the following options: Analog Output and/or Relay Output Modules.

SA-DL/OM-CB . . . .Output Module Carrier Board, DL series  
CR-CHANGE . . . .Range Change from Standard Range shown in BOLD type  
CS-3/3.5/4 . . . .Custom display scaling within standard ranges  
COA-3/3.5/4 . . . .Custom scaling of analog output for digital meters & bargraphs  
CCL-SETUP . . . .NRC to set-up Custom Configuration file and issue serial #  
CCL-INSTL . . . .Installation of custom configuration, specify serial #  
CSR-SETUP . . . .NRC to set-up custom selectable range  
CSR-INSTL . . . .Factory installation - custom configuration, specify serial #  
CSS-SETUP . . . .NRC to set-up custom special scaling  
CSS-34/INSTL . . . .Installation - for 3.5 and 4.0 meters, specify serial #  
COR-SETUP . . . .NRC to set-up Relays in non-standard locations  
COR-INSTL . . . .Installation - Relays in non-standard locations , specify serial #

#### ► ACCESSORIES (Specify Serial # for Custom Artwork Installation)

75-DBBZ9648F . . . .Black Bezel for 96x48mm Case  
75-DMTCLIPF . . . .Side Slide Brackets (2 pc) - extra set, extra strength  
76-DL40G-N4 . . . . "Touch" Green LED Faceplate, NEMA 4, Factory install  
76-DL40LG-N4 . . . . "Touch" Large Green LED Faceplate, NEMA 4, Factory install  
76-DL40LR-N4 . . . . "Touch" Large Red LED Faceplate, NEMA 4, Factory install  
76-DL40R-N4 . . . . "Touch" Red LED Faceplate, NEMA 4, Factory install  
ART-FS-S/D/C . . . .NRC for artwork & set-up Faceplate/Desc/Co.Logo  
ART-FS-S/D . . . .NRC for artwork & set-up Faceplate/Desc  
ART-FS-001 . . . .Install Custom Faceplate per meter - 1 color  
OP-MTLCLIP . . . .Screw Mounting Clips (2 pc) - to screw tighten slide brackets  
OP-MTL96X48 . . . .Metal Surround Case, includes screw mounting clips  
OP-N4X/96X48 . . . .96x48mm clear lockable front cover-NEMA 4X, splash proof

Prices subject to change without notice.

### WARRANTY

Texmate warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment. Texmate's obligations under this warranty are limited to replacement or repair, at its option, at its factory, of any of the products which shall, within the applicable period after shipment, be returned to Texmate's facility, transportation charges pre-paid, and which are, after examination, disclosed to the satisfaction of Texmate to be thus defective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Texmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Texmate's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period of any product which has been either repaired or replaced by Texmate.

### USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our various products either by way of printed matter or through direct contact with our sales/application engineering staff. However, since we have no control over the use of our products once they are shipped, NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE is made beyond the repair, replacement, or refund of purchase price at the sole discretion of Texmate. Users shall determine the suitability of the product for the intended application before using, and the users assume all risk and liability whatsoever in connection therewith, regardless of any of our suggestions or statements as to application or construction. In no event shall Texmate's liability, in law or otherwise, be in excess of the purchase price of the product.

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