



LEOPARD FAMILY

TEXMATE

DL-40JANUS

With or without an External Signal
Source for Rescaling

A powerful, smart, programmable panel meter with optional Modbus RS-485 serial, analog and up to six relays output for measurement and control applications in a 1/8 DIN 96x48mm case.

0.56" or optional 0.8" large display red or green LED

General Features

- External transmitters or signal conditioners can be eliminated by directly connecting of the sensor output to one of Texmate's 29 Plug-in Input Signal Conditioners that include:
 - AC Current – Pressure – Resistance
 - AC/DC Voltage – Process – *Temperature
 - Load Cell – Prototype – 4 to 20 mA
- *See models DL-40-RTD and DL-40-RTD for higher accuracy digitally linearized thermocouple and RTD
- Optional isolated 14 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).
- Optional Isolated Modbus RTU RS-485 serial communication with selectable baud rate (9600, 19200), address and parity.
- Auto-sensing AC/DC power supply. For voltages between **85-265 VAC / 95-300 VDC (PS1)** or 15-48 VAC / 10-72 VDC (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 display with range from –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.
- Up to optional six relays in combination of six, four or two 4 Amp Form A relays or two 9 Amp Form C with two or four 4 Amp Form A relays are available.
- Automatic intelligent averaging smooths noisy signals, while providing a fast display response to real input signal changes.
- Three-button programming via the front panel (UP, DOWN and PROGRAM buttons).

Software Features

- Front panel selectable four-level brightness control for 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.
- Program Lock switch

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 (optional)
 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:Up to Six Relays in combination of six,
 four or two 4 Amp Form A relays or two
 9 Amp Form C with two or four 4 Amp
 Form A relays.
 Analog Output:Isolated 14 bit user scalable mA or V
 AIC (mA out).....4-20 mA @ 0 to 500 Ω max loop resis-
 tance.
 AIV (volts out).....0-10 V DC @ 500 Ω or higher resistance
 Power Supply:AC/DC Auto sensing wide range supply
PS1 (std).....85-265 VAC / 95-300 VDC, 50-400Hz @ 3W
 PS2.....15-48 VAC / 10-72 VDC, 50-400Hz @ 2.5W
 Operating Temp.:.....0 to 60 $^{\circ}$ C
 Storage Temp:.....–20 $^{\circ}$ C to 70 $^{\circ}$ C.
 Relative Humidity:95% (non condensing)
 Case Dimensions:1/8 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

Input Module Compatibility

LEOPARD FAMILY: More than 29 different Plug-in I-Series Input Signal Conditioners are approved for Texmate's Leopard Family of meters. Some examples are shown on pages 12 - 14. See www.texmate.com for an up to date listing.



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