



LEOPARD FAMILY

TEXMATE

DL-40F

**Leopard Frequency 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 meter relay for frequency measurement.

General Features

- Frequency input. Easily user scaled.
- For RPM measurements, the recommended meter is the DL-40RPM meter which has been designed specifically for that purpose. Just enter the pulses per revolution and the DL-40RPM meter will calculate and display the RPM reading.
- Three frequency ranges of 99.99Hz, 999.9Hz and 9999Hz.
- 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).
- 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.
- Optional relays. 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 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: 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 Ω max loop resistance
 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 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