

TEXMATE

NOW FEATURING
OPTIONAL PLUG-IN
RELAY OR SSR
OUTPUT MODULES

DL-40F

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



CE



LEOPARD FAMILY

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 / 95-370 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.
- Optional relays. 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 Plug-in Modular Input Signal Conditioners for this specialized frequency only member of the Leopard Family: IF05 & IF08.

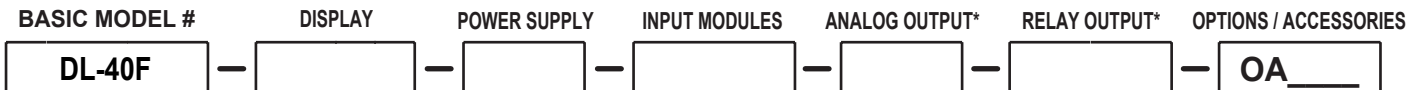


LEOPARD

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 Overage: Top segments of digital display flash
Negative Overage: 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 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 / 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-40F-DR-PS1-IA01-AIC-R1-OA2, the 2 OA's are, CR-CHANGE and a OP-N4X/96X48

► BASIC MODEL NUMBER

DL-40F 96x48mm, Leopard, 4 Digit, Frequency/RPM

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)

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

IF05 . . . Frequency with 24V Excitation. **99.99/999.9/9999Hz**
 IF08 . . . Line Frequency

► ANALOG OUTPUT

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-DBB29648F 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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