



LEOPARD FAMILY

BL-40F

**Leopard Frequency Meter
4 Digit 0.56" LEDs
in a 1/16 DIN CASE**

CE

An economically smart meter relay for frequency measurement.

General Features

- Frequency input. Easily user scaled.
- For RPM measurements, the recommended meter is the BL-40RPM meter which has been designed specifically for that purpose. Just enter the pulses per revolution and the BL-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 **85-265V 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
- Three annunciator LEDs provide front panel alarm status indication for up to three setpoints.
- Optional relays. One 10 Amp Form C and one 5 Amp Form A relay, or up to three 5 Amp Form A relays are available.
- When analog output is installed, one 10 Amp Form C or two 5 Amp Form A relays can be supported.

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.
- Three programmable setpoints.
- Relay activation can be selected to occur above (HI) or below (LO) each setpoint.
- Hysteresis setting for all three 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.

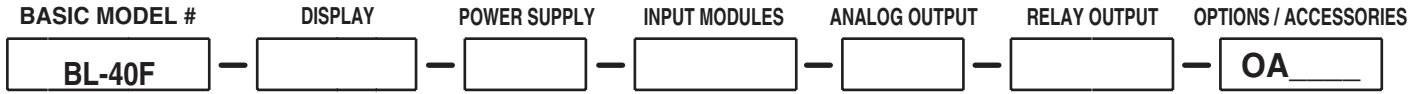


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Specifications

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" 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:Three 5 Amp Form A relays or one 10 Amp
Form C, and one 5 Amp Form A relay.
Analog Output:.....Isolated 16 bit user scalable mA or V
OIC (mA out).....4-20 mA @ 0 to 500 Ω max loop resistance
OIV (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 3.2W**
PS215-48 VAC / 10-72 VDC @ 2.5W max 3.2W
Operating Temp:.....0 to 60 $^{\circ}$ C
Storage Temp:-20 $^{\circ}$ C to 70 $^{\circ}$ C.
Relative Humidity:95% (non condensing)
Case Dimensions:.....1/16 DIN, Bezel: 96x24mm (3.78"x0.95")
Depth behind bezel 122.2 mm (4.83")
Plus 12.7mm (0.5") for Right-angled connector.
Weight:.....7 oz., 9 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.

Ordering Example: BL-40F-DR-PS1-IF05-OIC-R1-OA2, the 2 OA's are, CR-CHANGE and a 75-DBBZ96X24

► BASIC MODEL NUMBER

BL-40F . . . 96x24mm, 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

► 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*

- OIC . . . Isolated analog 4-20mA (with a Max. Two-5A Form A Relays)
 - OIV . . . Isolated analog 0-10VDC (with a Max. Two-5A Form A Relays)
- *Note: When either of the Analog Output options is installed, only the R1, R2 and R11 Relay Output options can be co-installed (see below).

► RELAY OUTPUT

- R1 . . . Single 5A Form A Relay
- R2 . . . Dual 5A Form A Relays
- R3 . . . Three 5A Form A Relays; SP1 & SP2 common**
- R11 . . Single 10A Form C Relay

R16 . . Single 10A Form C & Single 5A Form A Relays**
 **R3 & R16 cannot be co-installed with Analog Output options.

Special Options and Accessories (OA's)

| Part Number | Description |
|-------------|-------------|
|-------------|-------------|

► SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)

- CR-CHANGE . . . Calibrated Range Change to another Standard Range
- CS-L/40 Custom Scaling within any Std. or Custom Selectable Range
- CSR-L/40 Custom Selectable Range Installation or Modification
- CSS-L/40 Custom Special Scaling beyond the Standard Range
- COA-L/SINGLE . . Custom Output - Special Scaling of Analog Output
- COR-L/RELAY . . Custom Output - Relays Installed in Non-Standard Locations
- CCP-L/SETUP . . NRC to Set-up Custom Configuration - Functions, Codes
- CCP-L/INSTL . . . Factory Installation - Custom Configuration

► ACCESSORIES

- 75-DBBZ96X24 . . . Black Bezel for 96x24mm Case
 - 75-DMTC96X24 . . Side Slide Brackets (2 pc) - extra set, extra strength
 - 93-PLUG2P-DP . . Extra Screw Terminal Conn., 2 Pin Power Plug
 - 93-PLUG2P-DR . . Extra Screw Terminal Conn., 2 Pin Plug
 - 93-PLUG3P-DR . . Extra Screw Terminal Conn., 3 Pin Plug
 - 93-PLUG4P-DR . . Extra Screw Terminal Conn., 4 Pin Plug
 - DN.CAS96X24L . . Complete 96x24mm Case with bezel
 - OP-MTLCLIP Screw Mounting Clips (2 pc) to screw tighten slide brackets
 - 75-DTP96X24 Black Metal Trim Plate (96x24mm Case) 1 Meter
 - 75-DTP2X9624 Black Metal Trim Plate (96x24mm Case) 2 Meters
 - 75-DTP3X9624 Black Metal Trim Plate (96x24mm Case) 3 Meters
 - 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
- Many other options and accessories are available. See full price list for more details.
 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.

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