



LEOPARD FAMILY

## BL-40RPM

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



**An economically smart programmable meter relay  
with isolated 4 to 20 mA retransmission or control loop output  
capability for measurement and control applications in a 96 X 24 mm case.**

### General Features

- This meter has been designed specifically for RPM measurements. Just enter the pulses per revolution and the BL-40RPM meter will calculate and display the RPM reading.
- Three ranges with resolutions of 0.1 RPM, 1 RPM and 10 RPM (99.99 X 1000 RPM max.).
- 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 one count to the full scale range of 9999.
- 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).
- 24 V DC excitation is available to power external sensors.
- Standard red or optional green or super bright red 4-digit LED with display range 0 to 9999.
- Three annunciator LEDs provide front panel alarm status indication for up to three setpoints.
- 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.
- Automatic intelligent averaging smooths noisy signals, while providing a fast display response to real level changes.

### 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 is 1 Plug-in Modular Input Signal Conditioner, IF05, for this specialized RPM only member of the Leopard Family.

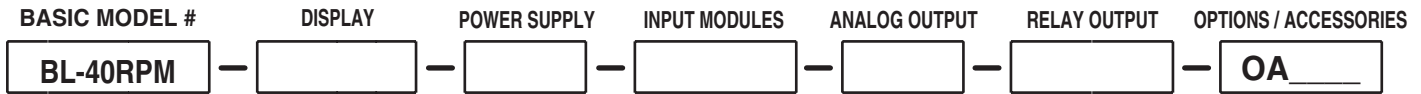


LEOPARD

### Specifications

**Input Specs:** .....Depends on input signal conditioner  
**A/D Converter:**.....14 bit single slope  
**Accuracy:**.....2 count  
**Temp. Coeff.:**.....100 ppm/°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 9999 counts.  
**Polarity:**.....Assumed positive.  
**Decimal Selection:**....Front panel button selectable, X•X•X•X•  
**Positive Overage:**..Top 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 500Ω 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**  
**PS2** .....15-48 VAC / 10-72 VDC @ 2.5W max 3.2W  
**Operating Temp.:**.....0 to 60 °C  
**Storage Temp:**.....-20 °C to 70 °C.  
**Relative Humidity:** ....95% (non condensing)  
**Case Dimensions:**.....1/16 DIN Bezel 96x24mm  
Depth behind bezel 122.2mm (4.83")  
Plus 12.7mm (0.5") for Right-angled connectors  
**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-40RPM-DR-PS1-IF07-0IC-R1-OA2, the 2 OA's are, CR-CHANGE and a 75-DMT96X24**

### ► BASIC MODEL NUMBER

BL-40RPM . 96x24mm, Leopard, 4 Digit RPM Meter

### 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 . . . 18 - 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.

IF05 . . . Universal Frequency/RPM

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

75-DMT96X24 . . . . . Side Slide Brackets (2 pc) - extra set, extra strength  
 75-DBBZ96X24 . . . . . Extra Black Bezel for 96x24mm Case  
 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  
 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 . . . . . Extra 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

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.

### 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.

Texmate cannot assume responsibility for any circuitry described. No circuit patent or software licenses are implied. Texmate reserves the right to change circuitry, operating software, specifications, and prices without notice at any time.