TEXMATE

CE

BL-40F
Leopard Frequency Meter
4 Digit 0.56" LEDs
in a 1/16 DIN CASE

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 ± 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.
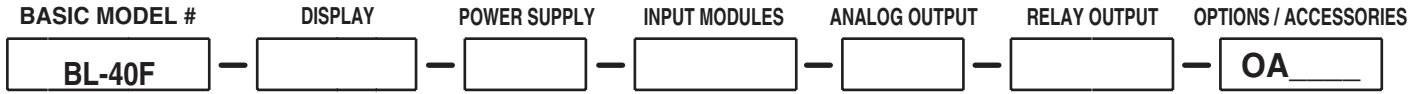
LEOPARD

Specifications

Input Specs: ....Depends on Input Signal Conditioner
A/D Converter:...........14 bit single slope
Accuracy:...................±(0.05% of reading + 2 counts)
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 –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: ....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 (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

BASIC MODEL #	DISPLAY	POWER SUPPLY	INPUT MODULES	ANALOG OUTPUT	RELAY OUTPUT	OPTIONS / ACCESSORIES
BL-40F —	—	—	—	—	—	**OA____**

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 Stnd. 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.