

TEXMATE



LEOPARD FAMILY

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 \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 / 95-300 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
- Three annunciator LEDs provide front panel alarm status indication for up to three setpoints.
- Optional relays. One 9 Amp Form C and one 4 Amp Form A relay, or up to three 4 Amp Form A relays are available.
- When analog output is installed, one 9 Amp Form C or two 4 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 Overrange:...Top segments of digital display flash
Negative Overrange:..Bottom segments of digital display flash
Relay Output:.....Three 4 Amp Form A relays or one 9 Amp
Form C, and one 4 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 50-400Hz / 95-300 VDC @ 2.3W**
PS2.....15-48 VAC 50-400Hz / 10-72 VDC @ 2.3W
Operating Temp.:.....0 to 50 $^{\circ}$ 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 con-
nector.
Weight:.....7 oz., 9 oz when packed