



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 / 95-300 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 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.
- Automatic intelligent averaging smooths noisy signals, while providing a fast display response to real level changes.
- UL Listed

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.



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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 Overrange:...Top 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 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 50-400Hz / 95-300 VDC @ 2.3W**
PS2.....15-48 VAC 50-400Hz / 10-72 VDC @ 2.3W
Operating Temp.:.....0 to 50 °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