0.56"
LEDs

CE   RoHS COMPLIAIANT   MADE IN U.S.A.

CL-B101D40RPM

Smart 101 segment, 4 digit LED Tricolor or
Mono-color digital bargraph controller
with four fully programmable set points
in a switchboard style case for
RPM Measurement.

LEOPARD FAMILY

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:..........10 conversions per second (Typical)

Digital Display:...............**4 digit 0.56" LED red (std)**, green (optn)
Range 0 to 9999 counts.

Bargraph Display:..........**101 segment 235° circular bar red (std)**,
green (optn)or tricolor (optn),

Polarity: ....Assumed positive. Displays – negative

Decimal Selection:........Front panel button selectable, X•X•X•X•

Positive Overrange:......Bargraph and top segments of digital display
flash.

Negative Overrange: ....First segment of bargraph and bottom seg-
ments of digital display flash.

Relay Output:................Two 9 Amp Form C relays, two 4 Amp Form
A relays or 4 x 4 Amp Form A relays.

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 / 95-300 VDC, 50-400Hz 4.2W**

PS2.............................18-48 VAC / 10-72 VDC, 50-400Hz 4.2W

Operating Temp.: ....0 to 50°C

Storage Temp:...............−20°C to 70°C

Relative Humidity: ....95% (non condensing)

Case Dimensions: ....Bezel (4.48"x4.48") 113.8x113.8mm
Depth behind bezel (4.23") 107.46 mm
Plus (0.48") 12.24 mm for connectors

Weight:...........................16 oz., 1lb 4 oz when packed

General Features

- This meter has been designed specifically for RPM measurements. Just enter the pules per revolution and the CL-B01DRPM bargraph will calculate and display the RPM reading.

- Three ranges with resolution 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 0 to 9999.

- Standard 101 segment Red Bar and Red 4-digit LED display with a range of 0 to 9999. Optional Green Bar and Green Digital display. Also Optional Programmable Tricolor (Red-Green-Orange) Bar is available.

- Front panel LED annunciators provide indication of setpoint status.

- Two 9 Amp Form C, and two 4 Amp Form A or 4 x 4 Amp Form A relays available.

- Provision to connect an external programming lockout switch.

- Provision for external DIM switch to reduce the brightest display setting by 50%.

- Automatic intelligent averaging, smooths noisy signals while providing a fast display response to real level changes.

- 24V excitation is available to power encoders or prox switches.

Software Features

- The bargraph can display, full scale, any desired portion of the digital reading.

- Setpoint 1 has delay-on-make and delay-on-break plus a special "pump on pump off" mode that creates a Hysteresis Band between SP1 and SP2.

- Four programmable setpoints with adjustable Hysteresis.• Bargraph center zero function.

- Relay activation can be selected to occur above (hi) or below (Lo) each setpoint.

- Decimal point setting.

- Digital display blanking.

- Four-level brightness control