0.56" LEDs

LEOPARD FAMILY

CE RoHS COMPLIAANT MADE IN U.S.A.

CL-B101D40-TCRTD

Smart 101 segment 4 digit LED Tricolor or Mono-color digital bargraph controller with four fully programmable set points for J, K, R, and T type thermocouples and RTD inputs in a switchboard style case.

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 –1999 to 9999 counts.
Bargraph Display:	**101 segment 235° circular red (standard)**, Green (optional) or tricolor (optional) LED.
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 segments 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 60°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

- External transmitters or signal conditioners can be eliminated by direct connection of the sensor output to Plug-in Input Signal Conditioners- available are thermocouples (J, K, R and T types) or RTD (Pt-100. 385 and 392 curves. 3 wire/4wire). Digitally Linearized.

- 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).

- A Programmable Tricolor (Red-Green-Orange) or mono color (red or green), 101 segment high brightness bargraph.

- Red 4-digit LED display with a range of -1999 to 9999 (12000 counts). Optional green digital display.

- 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.

- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC / 95-300 V DC (PS1)** or 18-48 V AC / 10-72 V DC (PS2).

- 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.

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.
- Digital display blanking.
- Decimal point setting.
- Four-level brightness control