



CE

LEOPARD FAMILY

FL-B101D40H Version 2

Leopard Bargraph Temperature Meter 101 Segment, 4 Digit 0.32" LEDs in a 9/64 DIN CASE

Smart Tricolor or mono-color digital bargraph with four fully programmable set points for J, K, R, and T type thermocouples and RTD inputs.



General Features

- Thermocouple (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 \pm 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. Vertical or optional horizontal format.
- 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 10 Amp Form C, and two 5 Amp Form A relays available
- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC / 95-370 V DC (PS1)** or 18-48 V AC / 10-72 V DC (PS2).
- 24 V DC excitation is available to power external 4/20mA transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors.
- Provision to connect an external programming lockout switch.
- Provision for external DIM switch to reduce the brightest display setting by 50%.
- Optional NEMA-4 front cover.
- 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.
- Bargraph center zero function.
- Four programmable setpoints.
- 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.
- Relay activation can be selected to occur above (hi) or below (Lo) each setpoint.
- Digital display blanking.
- Decimal point setting.
- Four-level brightness control of the bargraph and digital display.

Input Module Compatibility

There are 3 different Plug-in Modular Input Signal Conditioners for this specialized temperature only member of the Leopard Family. IT10 is for J, K, T and R thermocouples. IT11 is for 3 wire/4 wire Pt-100 RTD inputs. IT15 is for 3 wire/4 wire Pt-1000 RTD inputs.

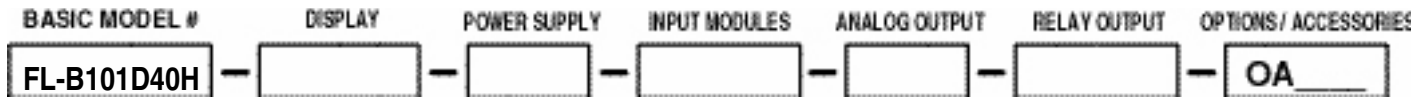


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Specifications

- 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:**.....10 conversions per second (Typical)
- Digital Display:**.....**4 digit 0.31" LED red (std)**, green (optn)
Range -1999 to 9999 counts.
- Bargraph Display:**.....**101 segment 4" red vertical (std)**,
green or tricolor (optn), horizontal (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 segments of digital display flash.
- Relay Output:**Two 5 Amp Form A relays and Two 10 Amp Form C relays.
- 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 / 95-370 VDC @ 2.5W max 4.2W**
PS218-48 VAC / 10-72 VDC @ 2.5W max 4.2W
- Operating Temp:**.....0 to 60 $^{\circ}$ C
- Storage Temp:**.....-20 $^{\circ}$ C to 70 $^{\circ}$ C
- Relative Humidity:**....95% (non condensing)
- Case Dimensions:**.....9/64 DIN (Bezel 36Wx144Hmm)
Depth behind bezel (5.83") 148mm
Plus (0.7") 18mm for connectors
- Weight:**.....9.5 oz., 12 oz when packed

Ordering Information



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: FL-B101D40H-VRR-PS1-IA01-OIC-R11-OA2 plus CR-CHANGE and an OP-N4/144X36

■ BASIC MODEL NUMBER

FL-B101D40H . . . 144x36mm, 101 Segment Bargraph, 4 Digit, Temperature

■ RELAY OUTPUT

- R11 . . . Single 10A Form C Relay
- R12 . . . Dual 10A Form C Relays
- R13 . . . Dual 10A Form C & One 5A Form A Relays
- R14 . . . Dual 10A Form C & Dual 5A Form A Relays
- R15 . . . Single 10A Form C & Dual 5A Form A Relays
- R16 . . . Single 10A Form C & Single 5A Form A Relays

Standard Options for this Model Number

Order Code Suffix	Description
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■ DISPLAY

- VRR . . . Red LED Bargraph w/4 Digit Red DPM, Vertical
- VGG . . . Green LED Bargraph w/4 Digit Green DPM, Vertical
- VGR . . . Green LED Bargraph w/4 Digit Red DPM, Vertical
- VRG . . . Red LED Bargraph w/4 Digit Green DPM, Vertical
- VTG . . . Tri-Color Bargraph w/4 Digit Green DPM, Vertical
- VTR . . . Tri-Color Bargraph w/4 Digit Red DPM, Vertical

- HRR . . . Red LED Bargraph w/4 Digit Red DPM, Horizontal
- HGG . . . Green LED Bargraph w/4 Digit Green DPM, Horizontal
- HGR . . . Green LED Bargraph w/4 Digit Red DPM, Horizontal
- HRG . . . Red LED Bargraph w/4 Digit Green DPM, Horizontal
- HTG . . . Tri-Color Bargraph w/4 Digit Green DPM, Horizontal
- HTR . . . Tri-Color Bargraph w/4 Digit Red DPM, Horizontal

- DSGG . . . Dual Scale Green LED Vertical Bargraph w/4 Digit Green DPM
- DSGR . . . Dual Scale Green LED Vertical Bargraph w/4 Digit Red DPM
- DSRG . . . Dual Scale Red LED Vertical Bargraph w/4 Digit Green DPM
- DSRR . . . Dual Scale Red LED Vertical Bargraph w/4 Digit Red DPM
- DSTG . . . Dual Scale Tri-Color Vertical Bargraph w/4 Digit Green DPM
- DSTR . . . Dual Scale Tri-Color Vertical Bargraph w/4 Digit Red DPM

■ 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.

- IT10 . . . Thermocouple, J/K/R/T, Selectable °C/°F, **1°/0.1°**
- IT11 . . . RTD, 100Ω Pt. Selectable **3/4-wire**, °C/°F, **1°/0.1°**, 385/392
- IT15 . . . RTD, 1000Ω Pt. Selectable **3/4-wire**, °C/°F, **1°/0.1°**, 385/392

■ ANALOG OUTPUT

- OIC . . . Isolated 16 Bit Current Output, 4-20mA
- OIV . . . Isolated 16 Bit Voltage Output, 0-10VDC

Special Options and Accessories

Part Number	Description
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■ SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)

- CR-CHANGE Calibrated Range Change to another Standard Range
- CS-L/BAR Custom Scaling within any Std. or Custom Selectable Range
- CSR-L/BAR Custom Selectable Range Installation or Modification
- CSS-L/BAR 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/INSTR Factory Installation - Custom Configuration

■ ACCESSORIES (Specify Serial # for Custom Artwork Installation)

- 75-DMC14436B Side Slide Brackets-Wide opening (2 pc)
- 75-DMC144X36 Side Slide Brackets-stand. (2 pc) - extra set
- 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
- 93-PLUG5P-DR Extra Screw Terminal Conn., 5 Pin Plug
- OP-MTL144x36 Metal Surround Case, includes screw mounting clips
- OP-MTLCLIP Screw Mounting Clips (2 pc) - to screw tighten slide brackets
- OP-N4/144X36 144x36mm clear lockable front cover-NEMA 4X, splash proof
- OP-PA/144X36 Panel Adapter for 144x36mm from 6 inch cutout

For Custom Face Plates and Scales see page 15.

Many other options and accessories are available. See full price list for more details. Prices subject to change without notice.

WARRANTY

Texmate warrants that its products are free from defects in material and workmanship under normal use and service for a period of one year from date of shipment. Texmate's obligations under this warranty are limited to replacement or repair, at its option, at its factory, of any of the products which shall, within the applicable period after shipment, be returned to Texmate's facility, transportation charges pre-paid, and which are, after examination, disclosed to the satisfaction of Texmate to be thus defective. The warranty shall not apply to any equipment which shall have been repaired or altered, except by Texmate, or which shall have been subjected to misuse, negligence, or accident. In no case shall Texmate's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period of any product which has been either repaired or replaced by Texmate.

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our various products either by way of printed matter or through direct contact with our sales/application engineering staff. However, since we have no control over the use of our products once they are shipped, **NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR OTHERWISE** is made beyond the repair, replacement, or refund of purchase price at the sole discretion of Texmate. Users shall determine the suitability of the product for the intended application before using, and the users assume all risk and liability whatsoever in connection therewith, regardless of any of our suggestions or statements as to application or construction. In no event shall Texmate's liability, in law or otherwise, be in excess of the purchase price of the product.

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