



LEOPARD FAMILY

FL-B101D40

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

Now featuring New Version 2.0 software with one-color Brightness control, this smart Tricolor or Mono-color digital bargraph has four fully programmable set points for monitoring, measurement, and control applications.

General Features

- External transmitters or signal conditioners can be eliminated by direct connection of the sensor output to more than 40 Plug-in Input Signal Conditioners that include:
 - AC/DC Current
 - AC/DC Voltage
 - Load Cell
 - Pressure
 - Process
 - Prototype
 - Resistance
 - Temperature
 - 4 to 20 mA
- 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 with adjustable Hysteresis.
- 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 accessed by the button and adjusted by the button.

Input Module Compatibility

- ☒ **LEOPARD FAMILY:** More than 38 different Plug-in I-Series Input Signal Conditioners are approved for Texmate's Leopard Family of meters. Some examples are shown on pages 12 - 15. See www.texmate.com for an up to date listing.



LEOPARD

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/°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
PS2	.....18-48 VAC / 10-72 VDC @ 2.5W max 4.2W
Operating Temp.:	.....0 to 60°C
Storage Temp.:	.....-20°C to 70°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

BASIC MODEL

FL-B101D40

DISPLAY

POWER SUPPLY

INPUT MODULES

ANALOG OUTPUT

RELAY OUTPUT

OPTIONS / ACCESSORIES

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-B101D40-VRR-PS1-IA01-OIC-R11-OA2 plus CR-CHANGE and an OP-N4/144X36

► BASIC MODEL NUMBER

FL-B101D40 . . . 144x36mm, Leopard, 101 Segment Bargraph, 4 Digit

Order Code Suffix

Description

► 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.

IA01 . . . AC-Volts Scaled RMS, 200/**600V AC**

IA02 . . . AC-Volts Scaled RMS, 200mV/**2V/20V AC**

IA03 . . . AC-mA Scaled RMS, **2/20/200mA AC**

IA04 . . . AC-Amps Scaled RMS, **0-1 Amp AC (0-100.00)**

IA05 . . . AC-Amps Scaled RMS, **0-5 Amp AC (0-100.00)**

IA06 . . . AC-Volts True RMS, 200/**600V AC**

IA07 . . . AC-Volts True RMS, 200mV/**2V/20V AC**

IA08 . . . AC-mA True RMS, **2/20/200mA AC**

IA09 . . . AC-Amps True RMS, **0-1 Amp AC (0-100.00)**

IA10 . . . AC-Millivolt, Scaled RMS, **100mV AC**

IA11 . . . AC-Amps True RMS, **0-5 Amp AC (0-100.00)**

IA12 . . . AC-Millivolt, True RMS, **100mV AC**

ID01 . . . DC-Volts, **2/20/200V/Custom** w/24V DC Exc

ID02 . . . DC-Millivolt, 20/50/**100/200mV DC** w/24V DC Exc

ID03 . . . DC-Milliamp, **2/20/200mA DC** w/24V DC Exc

ID04 . . . DC-Amps, **5A DC**

ID05 . . . DC-Volts **2/20/200/Custom V DC** w/Offset and 24V Exc

ID07 . . . DC-Milliamp, **2/20/200mA DC** w/Offset and 24V Exc

ID09 . . . DC-Amps, **1A DC**

IF02 . . . Line Frequency, 50-500VAC, 199.9Hz, or optional 400Hz

IGYZ* . . . Universal Direct Pressure

*View the **IG- Ordering Code** on page 13 to determine the value for Y & Z (IGAZ to IGKZ)

IP01 . . . Process Loop, **4-20mA(0-100.00)**

IP02 . . . Process Loop, **4-20mA(0-100.00)** w/24VDC Exc

IP03 . . . Process Input, **1-5V DC(0-100.00)** w/Offset, 24V Exc

IP07 . . . Universal Process 2V/5V/**10V/20V/200V/2mA/20mA/Custom**

IPT1 . . . Prototype Board for Custom Design

IR02 . . . 3-Wire Potentiometer 1K Ω min (0-F.S.)

IR03 . . . Linear Potentiometer, 3-wire, 1K Ω min

IR05 . . . Resistance 2K Ω

IS01 . . . Strain Gage 5/10VDC Exc., 20/**2mV/V, 4/6-wire**

IS02 . . . Pressure 5/10VDC Exc., 20/**2mV/V, 4/6-wire**

IS04 . . . Pressure Ext Exc., 20/2mV/V, **4/6-wire**

IS05 . . . Pressure/Load Cell 20/2mV/V, 5/10V Exc 4-wire

IS06 . . . Pressure/Load Cell Ext Exc., 20/2mV/V, 4-wire

IS07 . . . Pressure 20/2mV/V with High Impedance and External Excitation

IT03 . . . RTD, 100 Ω Pt. 2/**3/4-wire (-200 to 800°C)**

IT04 . . . RTD, 100 Ω Pt. 2/**3/4-wire (-200 to 1470°F)**

IT05 . . . RTD, 100 Ω Pt. 2/**3/4-wire (-190.0 to 199.0°F)**

IT06 . . . Thermocouple, J Type (**0-1400 °F**)

IT07 . . . Thermocouple, K Type (**0-1999°F**)

IT08 . . . Thermocouple, J Type (**0-760 °C**)

IT09 . . . Thermocouple, K Type (**0-1260°C**)

► ANALOG OUTPUT

OIC . . . Isolated 16 Bit Current Output, 4-20mA

OIV . . . Isolated 16 Bit Voltage Output, 0-10VDC

► 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

Part Number

Description

► 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

COP-L/SETUP NRC to Set-up Custom Configuration - Functions, Codes

COP-L/INSTL 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 19.

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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