



Center Bar for Dual Scale Applications (Tri-Color or Mono-Color)



LEOPARD FAMILY

FL-B101Q

Leopard Bargraph Meter
101 Segment LEDs
in a 9/64 DIN CASE

Smart mono-color digital bargraph with four fully programmable set points for monitoring, measurement, and control applications.



Left or Right Bar to match 6" Edgewise Mechanical Meters with Left or Right Pointers (Mono-Color only)



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 - 16. See www.texmate.com for an up to date listing.



LEOPARD

Specifications

- Input Specs:** Depends on range and function selected
- A/D Converter:** 14 bit single slope
- Accuracy:** $\pm(0.05\%$ of reading + 1segment)
- Temp. Coeff.:** 100 ppm/ $^{\circ}$ C (Typical)
- Warm up time:** 2 minutes
- Conversion Rate:** 10 conversions per second (Typical)
- Bargraph Display:** **101 segment 4" vertical (std)**, horizontal (optn), **red (std)**, green (optn), one red one green (optn)
- Polarity:** Selectable center zero
- Positive Overrange:** .. Bargraph display flashes
- Negative Overrange:** First segment of bargraph display flashes
- 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 15-48 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:** 3/32 DIN, Bezel: 36x144 mm (1.42"x5.69")
 - Depth behind bezel: (4.64") 117.5 mm
 - Plus 10 mm (0.39") for Right-angled connector, or plus 18.3 mm (0.72") for Straight-thru connector, or plus 26.5 mm (1.05") for Push-On connector.
- Weight:** 9.5 oz., 12 oz when packed

General Features

- 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 15-48 V AC / 10-72 V DC (PS2).
- 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 span from \pm one bar to the full scale range
- Provision to connect an external programming lockout switch.
- Optional NEMA-4 front cover.
- 24 V DC excitation is available to power external 4/20 mA transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors.

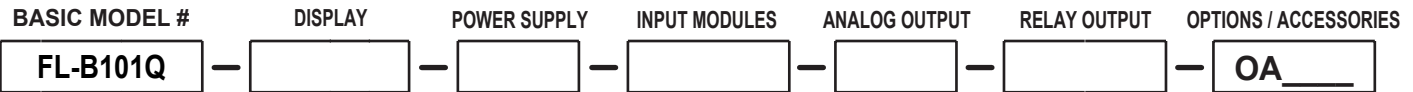
Software Features

- The two 101 segment bargraph can be independently scaled.
- Bargraph center zero function.
- Four programmable setpoints.
- Relays activation can be selected to occur above (HI) or below (LO) each setpoint.
- Decimal point setting.

Index

Analog Scaling and Calibration9	Functional Diagram10	Opening the Case to Access Mode	Standard Display Mode Calibration
Case Dimensions15	General Features1	Select Headers4	Procedure5
Center Zero Mode Scaling for Bipolar	Input Module Analog Calibration	Overview of Display Modes, Scaling	Standard Face Plate & Scales18
Inputs6-7	Procedures17	Capabilities and Operation Modes . . .3	Standard Scales & Caption Sheets .18
Component Layout11	Input Module Compatibility1	Panel Adapter3	Two Point Quickset Scaling and
Connector Pinouts10	Input Module Component Glossary . .16	Pin Descriptions10	Calibration5,6
Connectors11	I-Series Input Signal Conditioning	Setpoint Adjust7-8	
Controls and Indicators2	Modules12-15	Setting the Colors8	
Glossary of Programming Symbols	One Point Quickset Rescaling and	Software Features1	
and Modes of Operation2	Calibration Procedure6	Specifications1	
Custom Face Plates & Scales19	Ordering Information20		

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-B101Q-RVR-PS1-IA01-OIC-R11-OA2 plus CR-CHANGE and an OP-N4/144X36

► BASIC MODEL NUMBER

FL-B101Q . . .144x36mm, Leopard, 101 Segment Bargraph, 4 Digit

Standard Options for this Model Number

Order Code Suffix	Description
► DISPLAY	
BHG	Green LED Bargraph, Horizontal, Bottom position
BHR	Red LED Bargraph, Horizontal, Bottom position
CHG	Green LED Bargraph, Horizontal, Center position
CHR	Red LED Bargraph, Horizontal, Center position
CHT	Center Horizontal - Tri-Color
CVG	Green LED Bargraph, Vertical, Center position
CVR	Red LED Bargraph, Vertical, Center position
CVT	Center Vertical - Tri-Color
LVG	Green LED Bargraph, Vertical, Left side
LVR	Red LED Bargraph, Vertical, Left side
RVG	Green LED Bargraph, Vertical, Right side
RVR	Red LED Bargraph, Vertical, Right side
THG	Green LED Bargraph, Horizontal, Top position
THR	Red LED Bargraph, Horizontal, Top position

► POWER SUPPLY

PS185-265VAC/95-370VDC
PS215-48VAC/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
 - IGY* . . . 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 1KΩ min (0-F.S.)
 - IR03 . . . Linear Potentiometer, 3-wire, 1KΩ min
 - IR05 . . . Resistance 2KΩ
 - 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, 100Ω Pt. 2/3/4-wire **(-200 to 800°C)**
- IT04 . . . RTD, 100Ω Pt. 2/3/4-wire **(-200 to 1470°F)**
- IT05 . . . RTD, 100Ω 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

OICIsolated 16 Bit Current Output, 4-20mA
 OIVIsolated 16 Bit Voltage Output, 0-10VDC

► RELAY OUTPUT

- R11Single 10A Form C Relay
- R12Dual 10A Form C Relays
- R13Dual 10A Form C & One 5A Form A Relays
- R14Dual 10A Form C & Dual 5A Form A Relays
- R15Single 10A Form C & Dual 5A Form A Relays
- R16Single 10A Form C & Single 5A Form A Relays

Special Options and Accessories

Part Number	Description
► SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)	
CR-CHANGE	Range change from the standard input as shown in BOLD type
CS-BAR	Custom Scaling within any Strnd. or Custom Selectable Range
COA-BAR	Custom Output - Special Scaling of Analog Output
CSR-SETUP	NRC to Set-up Custom Selectable Range
CSR-INSTL	Installation of Custom Selectable Range
CSS-SETUP	NRC to Set-up Custom Special Scaling
CSS-BR/INSTL	Installation of custom special scaling of bargraph
COR-SETUP	NRC to Set-up Relays in non-standard locations
COR-INSTL	Installation of Relays in non-standard locations
CCL-SETUP	NRC to Set-up Custom Configuration - Functions, Codes
CCL-INSTL	Factory Installation - Custom Configuration

► ACCESSORIES (Specify Serial # for Custom Artwork Installation)

- 75-DBZ144X36 . . . Black bezel for 144x36mm Case
- 75-DMC14436B . . . Wide Jaw Side Slide Brackets - wider than standard (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
- DN.CAS144X36 . . . Complete 144x36mm Case with bezel
- OP-MTL144X36 . . . Metal Surround Case, includes screw mounting clips
- OP-MTLCLIPScrew 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
- ART-LM-S/C/D . . . Custom Label, Meter - Artwork & set-up + Co. Desc
- ART-FS-S/D/C . . . NRC for artwork & set-up Faceplate/Desc/Co.Logo
- ART-FS-S/DNRC for artwork & set-up Faceplate/Desc
- ART-FS-001Install Custom Faceplate per meter - 1 color
- ART-FB-002Produce & Install Custom Faceplate per meter - 2 color
- ART-FB-003Produce & Install Custom Faceplate per meter - 3 color

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 MERCHANT ABILITY, 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.

Texmate cannot assume responsibility for any circuitry described. No circuit patent or software licenses are implied. Texmate reserves the right to change circuitry, operating software, specifications, and prices without notice at any time.