TEXMATE

CE

LEOPARD FAMILY

BL-B51D40

Leopard Bargraph Meter 51 LED Segments in a 1/16 DIN Case

A red, 51 segment bargraph with a 4-digit LED digital display for monitoring, measurement and control applications mounted in a 24x96mm case.

General Features

- External transmitters or signal conditioners can be eliminated by direct connection of the sensor output to more than 38 Plug-in Input Signal Conditioners that include:
  - – AC/DC Current – Pressure – Resistance
  - – AC/DC Voltage – Process – Temperature
  - – Load Cell – Prototype – 4 to 20 mA
- 24 V DC excitation is available to power external transmitters and 5 or 10 V DC excitation is available for resistance bridge type sensors such as Load Cells and Pressure Transducers.
- A red, 51 segment high brightness bargraph.
- Red 4-digit LED display with a range of 1999 to 9999 (12000 counts).
- Front panel LED annunciators provide indication of setpoint status.
- Two 10 Amp Form C and two 5 Amp Form A relays available for the BL-B51D40.
- Auto-sensing AC/DC power supply. For voltages between **85-265 V AC/95-370 V DC (PS1)**.
- 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.
- 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 set-point.
- Digital display blanking.
- Decimal point setting.
- Four-level brightness control of the bargraph and digital display.

Input Module Compatibility

☑ **LEOPARD FAMILY**: More than 40 different Plug-in **I-Series** Input Signal Conditioners are approved for Texmate’s Leopard Family of meters. Some examples are shown on pages 12 - 13. 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: .....±(0.05% of reading + 2 counts)
Temp. Coeff.: .....100 ppm/°C (Typical)
Warm up time: .....2 minutes
Conversion Rate: .....3 to 16 conversions per second
Display:.....4 digit 0.31" Red LED display (std).
Polarity: .....Assumed positive. Displays –ve sign.
Decimals: .....User programmable
Positive Overrange:....Bargraph and top segments of digital display flash.
Negative Overrange: ..First segment of bargraph and bottom segments of digital display flash.
Display Range:.....–1999 to 9999 counts - 101 segment digital display
0 to 101 segments on bargraph
Relay Output: .....Two 5A Form A relays.
Power Supply: .....AC/DC Auto sensing wide range supply
85-265V AC / 95-370V DC@3W
Operating Temp.: .....0 to 60°C
Storage Temp: .....–20°C to 70°C.
Relative Humidity: ....95% (non condensing)
Case Dimensions: ....1/16 DIN, Bezel: 96x24mm (3.78” x 0.95”), Depth behind bezel 122.2 mm (4.83")
Plus 12.7mm (0.5”) for Right-angled conn.
Weight: .....6.5 oz., 8.5 oz when packed.

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Ordering Information

BASIC MODEL #		DISPLAY		POWER SUPPLY		INPUT MODULES		RELAY OUTPUT		OPTIONS / ACCESSORIES
BL-B51D40	–		–		–		–		–	OA____

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: BL-B51D40-HRR-PS1-IA01-0IC-R1-OA2, the 2 OA's are, HD-CHANGE and a GN.CAS96X24L

▶ BASIC MODEL NUMBER

BL-B51D40 . .96x24mm, Leopard, 51 Segment Bargraph, 4 Digit

Standard Options for this Model Number

Order Code Suffix ***Description***

▶ DISPLAY

VRR . .Red LED Bargraph w/4 Digit Red DPM, Vertical

▶ 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 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)**

▶ RELAY OUTPUT

R1 . . . .Single 5A Form A Relay
R2 . . . .Dual 5A Form A Relays

Special Options and Accessories (OA's)

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 Stnd. or Custom Selectable Range
CSR-L/BAR . . . . . .Custom Selectable Range Installation or Modification
CSS-L/BAR . . . . . .Custom Special Scaling beyond the Standard Range
COR-L/RELAY . . . . .Custom Output - Relays Installed in Non-Standard Locations
CCP-L/SETUP . . . . .NRC to Set-up Custom Configuration - Functions, Codes
CCP-L/INSTL . . . . .Factory Installation - Custom Configuration

▶ ACCESSORIES (Specify Serial # for Custom Artwork Installation)

75-DBBZ96X24 . . . . .Black Bezel for 96x24mm Case
75-DMTC96X24 . . . .Side Slide Brackets (2 pc) - extra set, extra strength
75-GBBZ144x2 . . . . .Black Bezel for 144x24mm Case
ART-FS-S/D/C . . . . .NRC for artwork & set-up Faceplate/Desc/Co.Logo
ART-FS-S/D . . . . . .NRC for artwork & set-up Faceplate/Desc
ART-FS-001 . . . . . .Install Custom Faceplate per meter - 1 color
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
DN.CAS96X24L . . . . .Complete 96x24mm Case with bezel
GN.CAS144X24 . . . . .Complete 144x24mm Case with bezel
OP-MCLP96X24 . . . .Screw Mounting Clips (2 pc) - to screw tighten slide brackets

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 def ects in mater ial and w orkmanship under normal use and ser vice for a per iod of one y ear 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 e xamination, disclosed to the satisfaction of Texmate to be thus def ective. The warranty shall not apply to an y 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 e xceed the or iginal purchase price. The aforementioned provisions do not e xtend the or iginal warranty per iod of any product which has been either repaired or replaced b y Texmate.

USER'S RESPONSIBILITY

We are pleased to offer suggestions on the use of our v arious products either by way of printed matter or through direct contact with our sales/application engineering staff. However, since we ha ve no control o ver the use of our products once the y are shipped, NO WARRANTY WHETHER OF MERCHANTABILITY, FITNESS FOR PURPOSE, OR O THERWISE is made beyond the repair, replacement, or refund of purchase pr ice at the sole discretion of Texmate. Users shall deter mine the suitability of the product f or the intended application bef ore 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 constr uction. 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 circuitr y, operating software, specifications, and prices without notice at any time.

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