



||EXMATE

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
 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-onmake 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

LEOPARD F AMILY: More than 40 diff erent Plug-in I-Series Input Signal Conditioners are approved for Texmate's Leopard F amily of meters. Some e xamples are sho wn 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.

Ordering Information

BASIC MODEL#		DISPLAY	ı	POWER SUPPLY	INPUT MODULES		RELAY OUTPUT	OP	TIONS / 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-R1-0A2, 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

...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

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

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

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

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

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

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

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

.AC-mA True RMS, 2/20/200mA AC 1A08

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

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

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

AC-Millivolt, True RMS, 100mV AC IA12

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

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

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

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

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

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

Universal Direct Pressure IGYZ*

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

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

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

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

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, $1K\Omega$ min

Resistance $2K\Omega$

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

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

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

IS05 .Pressure/Load Cell 20/2mV/V, 5/10V Exc 4-wire .Pressure/Load Cell Ext Exc., 20/2mV/V, 4-wire IS06

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

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)

1T08 .Thermocouple, J Type (0-760 °C)

IT09 .Thermocouple, K Type (0-1260°C)

▶ RELAY OUTPUT

.Single 5A Form A Relay 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

.Factory Installation - Custom Configuration CCP-L/INSTL

► 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-MCI P96X24 .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 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 an v 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 or iginal 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 o ver the use of our products once the y are shipped, NO WARRANTY WHETHER OF MERCHANT ABILITY, 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 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.