

FL-B202Q

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

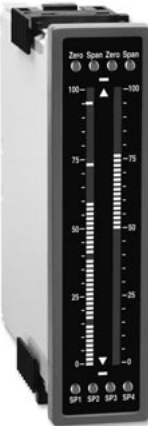


LEOPARD FAMILY

Dual - Inputs
with Dual Input IDP4
Universal DC volts, mA,
4-20mA Input Module
2 Setpoints per bar
Vertical or Horizontal
Configuration



MIN-MAX Display
on Right Bar with
Push Button Reset
Left Bar Displays
Single Input and
4 Setpoints using
Leopard Family
I-Series Input
Modules, such as
AC amps,
Temperature,
Pressure, etc..



Dual Tracking
Setpoints on Right
bar. Adjustable by
External Signal or
Potentiometer
input on CH2.
Left Bar Displays
Single Input on CH1
with Dual Input IDP4
Universal DC volts,
mA, 4-20mA
Input Module



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
- 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.
- Provision to connect an external programming lockout switch.
- Optional NEMA-4 front cover.

Software Features

- Utilizes the unique Quickset programming system.
- The two 101 segment bargraphs can be independently scaled.
- Five user selectable operating modes.
- Center zero display mode selectable for one or both bargraphs.
- Four programmable setpoints.
- Relay activation is individually selectable to occur above (HI) or below (LO) for each setpoint.

Smart dual-bar, dual-input or Single-input bargraph with up to four fully programmable set points and an isolated independently scalable 16-bit Analog output.

Input Module Compatibility

Dual input modes utilize the FL-B202Q specific IDP4 Universal DC Volts, mA, 4-20mA dual-input module, see pages 14-15.

Single Input modes are compatible with the entire **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 13 - 17. See www.texmate.com for an up to date listing.



LEOPARD

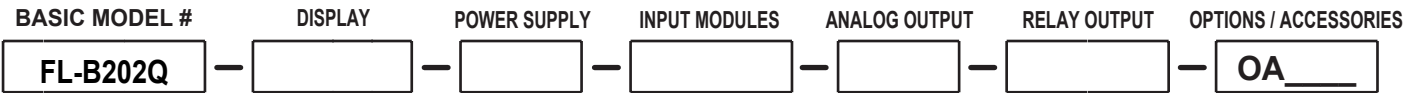


LEOPARD

Specifications

Input Specification:	..... Depends on range & 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 dual red bars(std) , Dual green bars(optn), one red bar and one green bar(optn) Horizontal bars(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:	..... 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-B202Q-VRR-PS1-IA01-OIC-R11-OA2 plus CR-CHANGE and an OP-N4/144X36

► BASIC MODEL NUMBER

FL-B202Q . . . 144x36mm, Leopard, Dual 101 Segment Bargraph

Standard Options for this Model Number

Order Code Suffix

Description

► DISPLAY

HGG . . . Green / Green LED Bargraph, Horizontal
 HGR . . . Green / Red LED Bargraph, Horizontal
 HRG . . . Red / Green LED Bargraph, Horizontal
 HRR . . . Red / Red LED Bargraph, Horizontal
 VGG . . . Green / Green LED Bargraph, Vertical
 VGR . . . Green / Red LED Bargraph, Vertical
 VRG . . . Red / Green LED Bargraph, Vertical
 VRR . . . Red / Red LED Bargraph, 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-Milliamper, **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-Milliamper, **2/20**/200mA DC w/Offset and 24V Exc
 ID09 . . . DC-Amps, **1A** DC
 IDP4 . . . Dual Universal Process input **2V/10V/20V/200V/2mA/20mA/Custom**
 IF02 . . . Line Frequency, 50-500VAC, 199.9Hz, or optional 400Hz
 IGYZ* . . . Universal Direct Pressure

*View the IG- Ordering Code on page 15 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)**

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.

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

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 Stnd. 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
 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-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
 ART-LM-S/C . . . Custom Label, Meter - Artwork & set-up
 ART-LM-S/C/D . . . Custom Label, Meter - Artwork & set-up + Co. Desc
 ART-LM-001 . . . Produce & Install Custom Label per meter - 1 color
 ART-LM-002 . . . Produce & Install Custom Label per meter - 2 color
 ART-LM-003 . . . Produce & Install Custom Label per meter - 3 color
 ART-LB-S/C . . . Custom Label, Box - Artwork & set-up
 ART-LB-S/C/D . . . Custom Label, Box - Artwork & set-up + Co. Desc
 ART-LB-001 . . . Produce & Install Custom Label per Box - 1 color
 ART-LB-002 . . . Produce & Install Custom Label per Box - 2 color
 ART-LB-003 . . . Produce & Install Custom Label per Box - 3 color
 ART-LD-S/C . . . Custom Data Sheet - Artwork & set-up
 ART-LD-S/C/D . . . Custom Data Sheet - Artwork & set-up + Co. Desc
 ART-LD-001 . . . Print Data Sheet per meter - 1 color
 ART-LD-002 . . . Print Data Sheet per meter - 2 color
 ART-LD-003 . . . Print Data Sheet per meter - 3 color
 ART-FB-S/L . . . Custom Faceplate - Artwork & setup Library
 ART-FB-S/L/C . . . Custom Faceplate - Artwork & setup Library + Logo
 ART-FB-S/N . . . Custom Faceplate - Artwork & setup Non-library
 ART-FB-S/N/C . . . Custom Faceplate - Artwork & setup Non-library + Logo
 ART-FB-001 . . . Produce & Install Custom Faceplate per meter - 1 color
 ART-FB-002 . . . Produce & Install Custom Faceplate per meter - 2 color
 ART-FB-003 . . . Produce & 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.

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.

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.