



LEOPARD FAMILY



FL-B101D40F

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

**Smart Tricolor or mono-color
digital bargraph with four fully
programmable set points for monitoring, control and
frequency measurements.**

General Features

- Frequency input. Easily user scaled.
- 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.
- 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 of the bargraph and digital display.

Input Module Compatibility

There are 2 Plug-in Modular Input Signal Conditioners for this specialized frequency only member of the Leopard Family: IF05 & IF08.

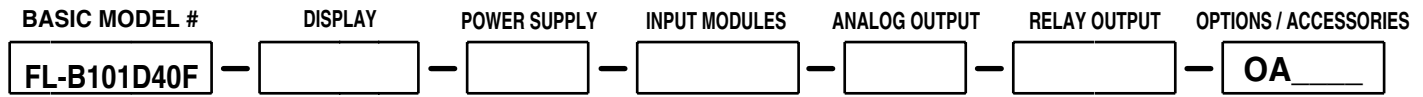


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Specifications

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/ $^{\circ}$ 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 Overage: .. Bargraph and top segments of digital display flash.
Negative Overage: 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 $^{\circ}$ 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.

► **BASIC MODEL NUMBER**
FL-B101D40F 144x36mm, 101 Segment Bargraph, 4 Digit, Frequency

Standard Options for this Model Number

Order Code Suffix	Description	List
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► **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.

IF05 . . . Frequency with 24V Excitation. **99.99/999.9/9999Hz**

IF08 . . . Line Frequency.

► **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	List
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► **SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)**
CR-CHANGECalibrated Range Change to another Standard Range

CS-L/BARCustom Scaling within any Std. or Custom Selectable Range

CSR-L/BARCustom Selectable Range Installation or Modification

CSS-L/BARCustom Special Scaling beyond the Standard Range

COA-L/SINGLECustom Output - Special Scaling of Analog Output

COR-L/RELAYCustom Output - Relays Installed in Non-Standard Locations

CCP-L/SETUPNRC to Set-up Custom Configuration - Functions, Codes

CCP-L/INSTLFactory Installation - Custom Configuration

► **ACCESSORIES (Specify Serial # for Custom Artwork Installation)**
75-DMC14436BSide Slide Brackets-Wide opening (2 pc)

75-DMC144X36Side Slide Brackets-stand. (2 pc) - extra set.

93-PLUG2P-DPExtra Screw Terminal Conn., 2 Pin Power Plug

93-PLUG2P-DRExtra Screw Terminal Conn., 2 Pin Plug

93-PLUG3P-DRExtra Screw Terminal Conn., 3 Pin Plug

93-PLUG4P-DRExtra Screw Terminal Conn., 4 Pin Plug

93-PLUG5P-DRExtra Screw Terminal Conn., 5 Pin Plug

OP-MTL144x36Metal Surround Case, includes screw mounting clips

OP-MTLCLIPScrew Mounting Clips (2 pc) - to screw tighten slide brackets

OP-N4/144X36144x36mm clear lockable front cover-NEMA 4X, splash proof

OP-PA/144X36Panel Adapter for 144x36mm from 6 inch cutout

For Custom Face Plates and Scales see page 15.

Many other options and accessories are available.

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.

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