TEXMATE

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 ± 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.
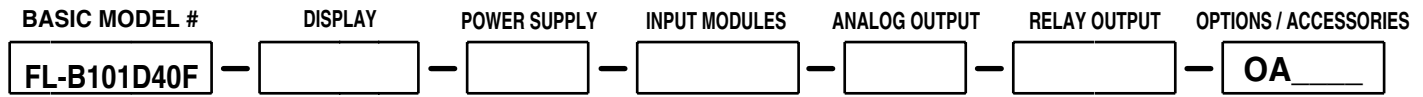

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Specifications

Input Specs: ....Depends on Input signal conditioner
A/D Converter: ....14 bit single slope
Accuracy: ....±(0.05% of reading + 2 counts)
Temp. Coeff.: ....100 ppm/°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 Overrange:...Bargraph and top segments of digital display flash.
Negative Overrange: 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 500Ω 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°C
Storage Temp:...........–20°C to 70°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

BASIC MODEL #	DISPLAY	POWER SUPPLY	INPUT MODULES	ANALOG OUTPUT	RELAY OUTPUT	OPTIONS / ACCESSORIES
FL-B101D40F —		—	—	—	—	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.

▶ BASIC MODEL NUMBER
FL-B101D40F 144x36mm, 101 Segment Bargraph, 4 Digit, Frequency . . . .

Standard Options for this Model Number

Order Code Suffix	Description	List

▶ 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

▶ 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 . .
COA-L/SINGLE. . .Custom Output - Special Scaling of Analog Output . . . .
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-DMC14436B . . .Side Slide Brackets-Wide opening (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 . . . .
OP-MTL144x36. . .Metal Surround Case, includes screw mounting clips . . .
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 . . . . .

For Custom Face Plates and Scales see page 15.

Many other options and accessories are available.

Prices subject to change without notice.