



# **FX-BQ-PROCESS**

Lynx Bargraph Meter
101 Segment in a 9/64 DIN CASE

A Powerful Smart 4-20mA/0-10V
Process Meter with
Isolated 4-20mA DC or 0-10VDC output

# Input Module Compatibility

LYNX FAMILY: More than 33 different Plug-in I-Series Input Signal Conditioners are approved for Texmate's Lynx Family of meters.



See www.texmate.com for an up to date listing.

# General Features

 External transmitters or signal conditioners can be eliminated by directly connecting the sensor to Plug-in Input Signal Conditioning Modules that include:

- 4-20mA

IP01: 4-20mA Process Loop

IP02: 4-20mA Process Loop with Excitation 24VDC@100mA

-0-10V

ID01: DC-Volts 2/20/200V with 24V DC Exc

ID05: DC-Volts 2/20/200V with offset and 24V DC Exc

- A red or optional green 101 segment bargraph.
- Auto-sensing AC/DC power supply. For voltages between 85-265 V AC / 95-300 V DC (PS1) or 14-48 V AC / 10-72 V DC (PS2).
- Optional 16 Bit isolated analog output that can be used to drive an external process device such as a chart recorder, remote display, or for retransmission to a central control room. User or factory scalable to 4 to 20 mA, 0 to 20 mA or 0 to 10 V across any desired span from ± one bar to the full scale range
- · Center zero setting, header selectable.
- Provision for external brightness setting switch (by connecting the DIM to the GND pin on the back of the meter).
- Smart averaging (to speed up display response).
- Optional NEMA-4 front cover.
- UL Listed

# Specifications

Input Specs:.....Depends on range and function selected

A/D Converter: .....14 bit single slope

**Accuracy**: .....±(0.05% of reading + 1segment)

Temp. Coeff.:.....100 ppm/°C (Typical)

Warm up time:.....2 minutes

Conversion Rate:.....10 conversions per second (Typical)

Bargraph Display:.....101 segment 4" vertical (std),

horizontal (optn), red (std), green (optn)

**Polarity**: ......Selectable center zero **Positive Overrange**:..Bargraph display flashes

**Negative Overrange**: First segment of bargraph display flashes **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  $\Omega$  or higher resistance

Power Supply:.....AC/DC Auto sensing wide range supply

PS1 (std).....85-265 VAC, 50-400Hz / 95-300 VDC @ 1.5W

PS2 ......14-48 V AC, 50-400Hz / 10-72 V DC @1.5W

Operating Temp.:.....0 to 50°C

Storage Temp:.....-20°C to 70°C

Relative Humidity: ....95% (non condensing)

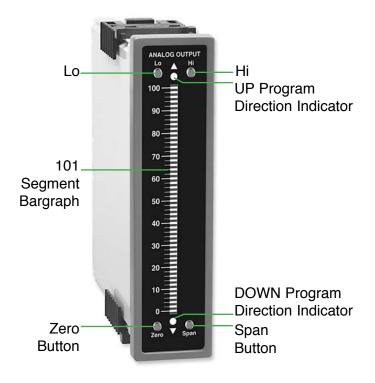
**Case Dimensions**: ....9/64 DIN Bezel: 36x144mm(1.42"x5.69")

Depth behind bezel:117.5mm(4.64"). Plus 10mm(0.39") for Right-angled connector, or plus 18.3mm(0.72") for Straight-

thru connectors.

Weight:.....9.5 oz., 12 oz when packed

#### Analog Output Scaling and Calibration . 6 Glossary of Programming Symbols & One Point Quickset Rescaling and Modes of Operation . . . . . . . . . . . . . 2 Calibration Procedure.....5 Hinged Clear Lockable Poly NEMA 4X Component Layout . . . . . . . . . . . . . . . . . 8 Opening the Case to Access Mode Select Header.....4 Standard Display Mode Calibration Input Module Compatibility . . . . . . . . . 1 Controls and Indicators . . . . . . . . . 2 Input Module Component Glossary . . 9 Overview of Display Modes, Scaling Two Point Quickset Scaling and Custom Face Plates & Scales . . . . 10 Installation Guideline . . . . . . . . . . . . . 7 Capabilities & Operating Modes. . . . . 3 Calibration . . . . . . . . . . . . . . . . 3,5



**Quickset Programming** 

This bargraph features Texmate's unique QUICKSET PROGRAMMING. When a front panel button is pressed and held down, the associated function is

directly changed. The direction of change will be either up or down, as indicated by the UP and DOWN indicator LEDs. After the indicator LED lights up there is a 0.5 second delay before any change occurs. When a button is released and pressed down again the direction of change is reversed. As there are no menu or sub-menus to navigate, the programming and setup is quick and easy.

#### **Front Panel Buttons**

# Zero Button

The Zero Button sets the low input signal scaling.

# Span Button

The Span Button sets the high input signal scaling.

#### Lo Button

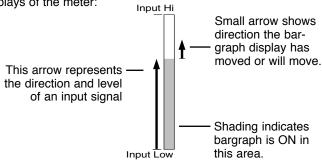
The Lo Button sets the analog output low setting.

## Hi Button

The Hi Button sets the analog output high setting.

# Glossary of Programming Symbols and Modes of Operation

To explain software programming procedures, logic diagrams are used to visually assist in following programming steps. The following symbols are used to represent the functions and displays of the meter:



Standard or Center Zero Display Mode Select Header



Jumper clips enables standard display.



Jumper clip to enable Center Zero display.

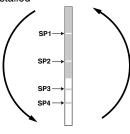


When two fingers are shown side by side, the two corresponding buttons must be pressed at the same time to initiate an indicated function.



Horizontal and Reverse Mounting with Custom Face Plate Installed

Horizontal or Reverse Mounting
Meters can be mounted horizontally in
the panel and for those applications that
require an opposite growth of the bar, the
meter can be vertically or horizontally
mounted upside down

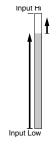


# Over View of Display Modes, Scaling Capabilities and Operating Modes



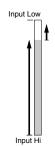
#### Standard Scaling

Standard display mode selected and scaled so bar increases as input signal increases from Low to Hi.



#### **Inverse Scaling**

Standard display mode selected and scaled so the bar increases as the input signal decreases from Hi to Low.

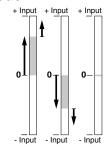




# Center Zero Display Mode

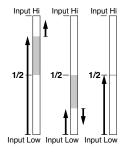
#### **Bipolar Center Zero**

Center point display mode selected and scaled, so the bar increases upward from zero, for increasing positive inputs and downward from zero for increasing negative inputs. When the input is zero, only the center segment will be on.



#### **Halfway Zero Point**

Center point display mode selected and scaled, so the bar increases upwards or downwards from the center point, for signals that are greater or less than half the calibrated full scale range respectively. When the input is equal to half the full scale range, only the center segment will be on



# Two Point Quickset Scaling and Calibration

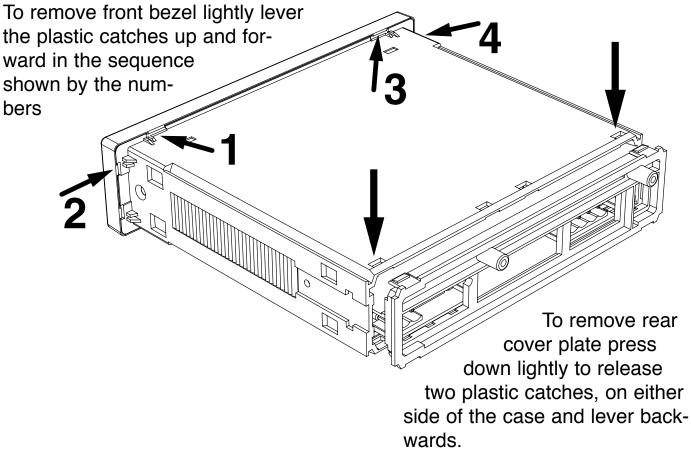
Meters with QUICKSET PROGRAMMING feature a unique, easy-to-use, two point scaling and calibration system.

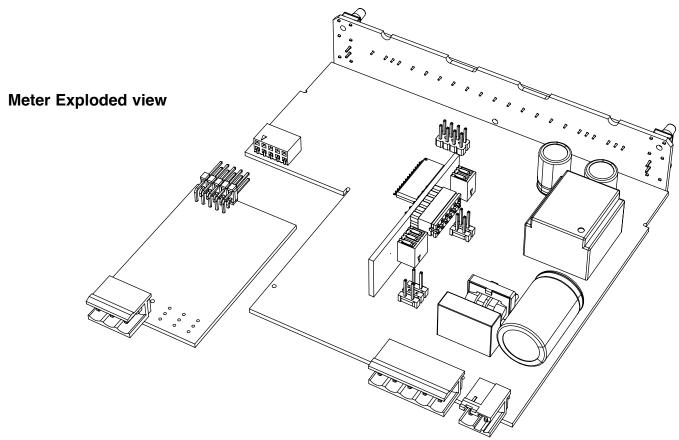
Scaling or calibration is accomplished simply, by applying a zero or low input signal and adjusting the bar to the desired reading, using the ZERO button. A higher input signal is then applied, and the bar is adjusted to the desired reading for that input value, using the SPAN button.

## IMPORTANT DETAILS THAT MAKE QUICKSET PROGRAMMING EASY TO USE AND UNDERSTAND

- 1. The zero and span buttons are functionally the same, except as follows: The ZERO button can initiate a scaling with input signals from zero to 95% of fullscale. The Span button can initiate a scaling with input signals from 5% of fullscale to 105% of fullscale.
- 2. When a Zero or Span button is pressed, the Up or Down indicator LED will immediately light up to show the direction, in which the Bar will move, after a 0.5 second delay. If the button is released and pressed again, the opposite Up or Down indicator will light up, and 0.5 seconds later the Bar will begin to move in that direction until the button is released. When the bar is being adjusted to zero or fullscale, the bar will automatically stop at the zero or fullscale position, and will not overshoot these positions, even if the button continues to be pressed.
- 3. While the bar is being adjusted, a new offset and scale factor is continuously being calculated. At the moment the button is released, and the scaling is accepted, the calculation data is memorized and implemented. The Scaling calculation is based on the new position of the Bar, the input signal being applied at that moment, and the previously memorized position of the Bar and the input signal that was being applied, when the other button was last released.
- 4. Positive and negative signals maybe integrated into a two point scaling. However when either a ZERO or SPAN button is pressed the input signal being applied, must be more than 5% higher or lower than the previously memorized value of the input signal, that was being applied when the other button was last released. If not, the bar will flash, the scaling will not be accepted, and the previous scaling will still be retained in memory.
- 5. Because of the requirement, that a new scaling input signal must be 5% higher or lower than the previously stored value, it can sometimes be difficult to implement a desired scaling, particularly when using a calibrator that only has fixed output values. In this case Reset the Scaling by pressing the ZERO and SPAN buttons simultaneously for two seconds. Both scaling memories will be erased and an internal default scale factor will be loaded. This provides a display of zero to fullscale on the bar for an input of approximately 0 to 100% of the range selected on the input signal conditioning module. After Resetting the Scaling a new calibration, using either button, can be implemented with new input signal values. It is good practice to always use the Zero button for lower input signals and the Span button for higher input signals, even when the bar display scale is inversed.
- 6. The larger the difference between two points used for calibration, the better the accuracy. However if the difference is too high, and the output from the input signal conditioning module is greater than +2.1VDC, or less than -1.05VDC, the bar will flash over range. The calibration will not then be accepted and, the previous scaling will still be retained in memory. In this case, either a lower input signal must be used, or a higher range on the input module should be selected to recalibrate the meter.

**Note**: Most input signal conditioners have provisions for analog calibration and scaling. If the meter's scale factor is set to read zero with a zero input (shorted input), and to read 10 Bars fullscale with a 2.000 V input, any pre-calibrated signal conditioner with an output that does not exceed – 1 V to + 2 V, will read correctly in the meter without any further calibration.





# Standard Display Mode Calibration Procedure



Standard Display with Jumper Clips in OFF position

**Standard or Center Zero Display Mode** may be selected, depending on the Operating Mode selected. If the standard display mode is not already selected open the meter case as showing on page 4 and move the jumper clips on the display mode select header to the OFF position.

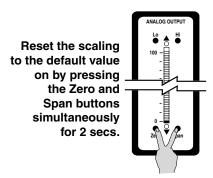
#### STEP A REVIEW THE INPUT MODULE STATUS

- 1) See pages 10 15 for information on input modules that may be used with this meter.
- 2) Confirm that the correct range and input is selected on the input signal conditioning module.

**Note:** When undertaking an initial set up and primary scaling and calibration of the meter it is best to start with a reset of the scaling.

#### STEP B RESET THE SCALING

1) Apply power to the meter and press the ZERO and SPAN buttons simultaneously for 2 seconds. This erases any previously memorized scalings, and resets the scaling to the factory default, of approximately zero to full scale, for an input, that is 0 to 100% of the range selected on the input signal conditioner.

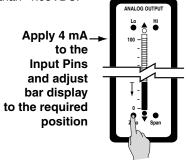


# Two Point Quickset Scaling and Calibration Procedure (continued)

**Note:** To calibrate the bargraph you must be able to input two input signals. Usually the minimum input (LO Input) and the maximum input (HI Input) signals are used for optimum accuracy. However a scaling can be accomplished with any two signals that are higher or lower than each other by more than 5% of fullscale and are not greater than +2.1VDC or less than -1.05VDC.

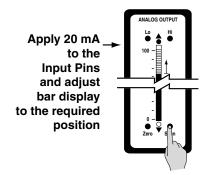
#### STEP C SET THE LOW INPUT SIGNAL READING ON THE BAR

- 1) Apply the LO input signal (4ma in this example) to the input pins.
- 2) Using the ZERO button adjust the bar down to the required position.



#### STEP D SET THE HIGH INPUT SIGNAL READING ON THE BAR

 Apply the high input signal (20mA in this example) to the input pins. Using the SPAN button adjust the bar to the required position. This position could be higher or lower than the position adjusted in Step 2. The scaling for an input of 4 to 20mA is now complete.



# One Point Quickset Rescaling and Calibration Procedure

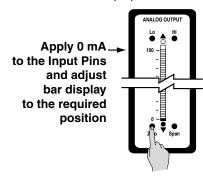
# ONE POINT RECALIBRATION

As explained earlier, the FX-B101Q bargraph is calibrated using two point calibration. Once a bargraph is calibrated, the low end of the range may be then recalibrated without affecting the calibration of the high end, and vice versa.

For example, take an FX-B101Q that has been calibrated to read zero to full scale for an input of 4 to 20mA. If now the scaling has to be changed to read zero to full scale for an input of 0 to 20mA, only the low (4 mA) end needs to be recalibrated. The high (20 mA) end of the scaling is left untouched, and so does not change. The following one point recalibration procedure is used for this purpose.

#### STEP A RECALIBRATE THE LOW INPUT SIGNAL READING ON THE BAR

- Apply the LO input signal (0ma in this example) to the input pins.
   The first segment will flash, indicating an under range condition.
- 2) Using the ZERO button adjust the bar up to the required position.
- The FX-B101Q has now been recalibrated to read zero to fullscale for a 0 to 20 mA input.



# Analog Output Scaling and Calibration

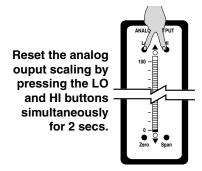
When the optional analog output module is installed, an independently calibrated 16 bit isolated, voltage or current analog output is available. **The analog signal is independently scaled to the input signal and not to the bargraph display.** It is important to note that the Analog Output is completely independently of the bargraph display. This means for example that the bargraph display may be scaled to go from zero to full scale as the input changes from 0 to 5V, while at the same time, the analog output is scaled to go from 4 to 20mA as the input changes from 2 to 3V. Rescaling the bargraph or the analog output will not affect the scaling of the other.

To calibrate the Analog Output you must be able to input two input signals. Usually the minimum input (LO Input) and the maximum (HI Input) signals are used for maximum accuracy.

For example: the three steps to obtain an Analog Output of 4mA to 20mA for an input of 0 to 10V are:

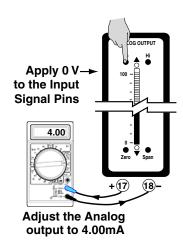
#### STEP A RESET THE ANALOG OUTPUT SCALING

 Press the LO and HI buttons simultaneously and hold them down for 2 seconds. This will reset the analog output scaling to the default value. The default analog output scaling is approximately 0 to 20mA (0 to 10V if voltage output option is selected) for an input that is 0 to 100% of the range selected on the input signal conditioner.



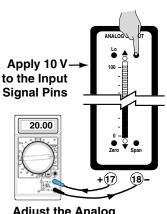
#### STEP B CALIBRATE ANALOG OUTPUT FOR LO SIGNAL

- 1) Apply the low input signal (0V in this example) to the meter.
- 2) Connect an external multimeter to the analog output pins (Pins 17 and 18).
- 3) Using the LO button adjust the analog output as measured on the external multimeter to be the required value. (4mA in this example). When the LO button is pressed, the UP or DOWN indicator LED shows the direction of change. To reverse the direction of change release the LO button and press down again. Initially the output changes very slowly, but speeds up as the LO button remains pressed down. The analog output for a low input can be set in this step to any value in the range of 0 to 20mA or 0 to 10V ( if the voltage output option is selected).



#### STEP C CALIBRATE ANALOG OUTPUT FOR HI SIGNAL

- 1) Next apply the high input signal (10V in this example) to the meter.
- 2) Using the HI button, adjust the analog output as measured on the external multimeter to be the required value. (20mA in this example). When the HI button is pressed the UP or DOWN indicator LED shows the direction of change. Release the HI button and press again to reverse the direction of change. Initially the output changes very slowly, but speeds up as the HI button continues to remain pressed. This output may be higher or lower than the value set in Step 2, and may be any value in the range of 0 to 20mA or 0 to 10V. This allows the easy reversal of analog output that is required in some applications.



Adjust the Analog output to 20.00mA

# **Connector Pinouts**

This meter uses plug-in type screw terminal connectors for all input and output connections. The power supply connections (pins 23 and 24) have a unique plug and socket outline to prevent cross connection. The main board uses standard right-angled connectors. Replacement 2-, 3-, and 4-pin plug connectors are available.

# See Lynx Family Input Signal Conditioning Moduls 1-6 17 18 19 20 21 23 24 Analog Output - Analog Output - DC + DC + DC



#### WARNING

AC and DC power supply voltages are hazardous. Make sure the power supply is isolated before connecting to the meter.

# **Connectors**

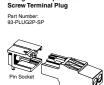
Standard plug-in screw terminal blocks provided by Texmate:

#### **WARNING**

AC and DC input signals and power supply voltages can be hazardous. Do Not connect live wires to terminal blocks, and do not insert, remove or handle terminal blocks with live wires connected.







Straight-thru Input Power

Straignt-inru
Screw Terminal Plug
Part Numbers:
93-PLUGSP-0S...2 pins
93-PLUGSP-0S...3 pins
93-PLUGSP-0S...4 pins
93-PLUGSP-0S...4 pins

# Pin Descriptions

# Input Signal - Pins 1 to 6

Pins 1 to 6 are reserved for the input signal conditioner. See the data sheet for the selected input signal conditioner.

## Rear Panel Switches – Pins 17 to 21

**Pin 17 ANALOG OUTPUT (+).** mA (0 to 20 mA/4 to 20 mA) or V (0 to 10 V) output is header selectable.

- Pin 18 ANALOG OUTPUT (-). mA (0 to 20 mA/4 to 20 mA) or V (0 to 10 V) output is header selectable.
- Pin 19 Programming LOCK. By connecting the LOCK pin to the COMMON pin, the meter's programmed parameters can be viewed but not changed.
- **Pin 20 COMMON.** To activate the LOCK or DIM functions from the rear of the meter, the respective pins have to be connected to the COMMON pin. This pin is connected to the internal power supply ground.
- Pin 21 DIM. By connecting the display dim (DIM) pin to the COMMON pin, the display brightness setting is halved.

# Pins 23 and 24 - AC/DC Power Input

Auto-sensing AC/DC power supply. For voltages between 85-265 V AC, 50~400Hz / 95-300 V DC (PS1) or optional 14-48 V AC 50~400Hz / 10-72 V DC 1.5W nominal. (PS2).

Pin 23 AC Neutral / –DC. Neutral power supply line.
Pin 24 AC line / +DC. Live power supply line.

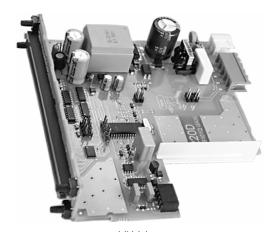
# Installation Guidelines

# Installation

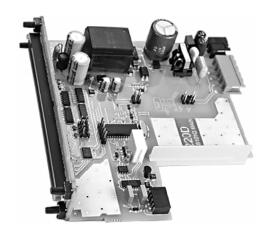
- 1. Install and wire meter per local applicable codes/regulations, the particular application, and good installation practices.
- 2. Install meter in a location that does not exceed the maximum operating temperature and that provides good air circulation.
- 3. Separate input/output leads from power lines to protect the meter from external noise. Input/output leads should be routed as far away as possible from contactors, control relays, transformers and other noisy components. Shielding cables for input/output leads is recommended with shield connection to earth ground near the meter preferred.
- 4. A circuit breaker or disconnect switch is required to disconnect power to the meter. The breaker/switch should be in close proximity to the meter and marked as the disconnecting device for the meter or meter circuit. The circuit breaker or wall switch must be rated for the applied voltage (e.g., 120VAC or 240VAC) and current appropriate for the electrical application (e.g., 15A or 20A).
- 5. See Case Dimensions section for panel cutout information.
- 6. See Connector Pinouts section for wiring.
- 7. Use 28-12 AWG wiring, minimum 90°C (HH) temperature rating. Strip wire approximately 0.3 in. (7-8 mm).
- 8. Recommended torque on all terminal plug screws is 4.5 lb-in (0.51 N-m).



# MAIN BOARD

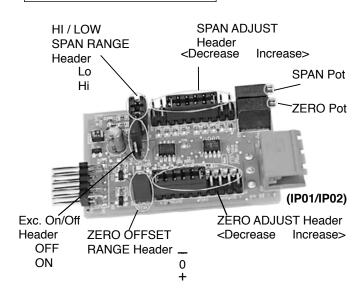


Hi Voltage

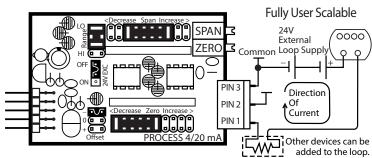


Low Voltage

# 4-20mA INPUT MODULE

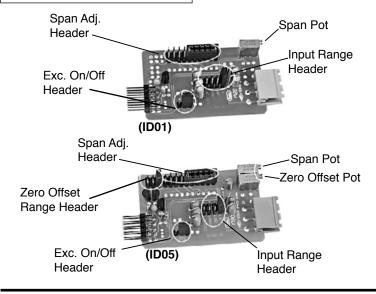


# 4 to 20mA Process Loop Measurement

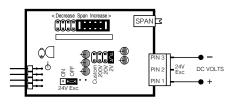


Order IP02, if you require the loop excitation voltage (24VDC@100mA) to be supplied by the meter.

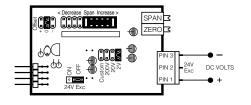
# 0-10V INPUT MODULE



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



ID05: DC Volts 2/20/200/Custom V DC with Offset and 24V Exc.



# Input Module Component Glossary



# 24V DC Output Header

On some modules this header enables a 24V DC 25mA (max) Excitation/Auxiliary output to be connected to Pin 2.



# SPAN Potentiometer (Pot)

If provided, the 15 turn SPAN pot is always on the right side (as viewed from the rear of the meter). Typical adjustment is 20% of the input signal range.

#### SPAN ADJUST Header



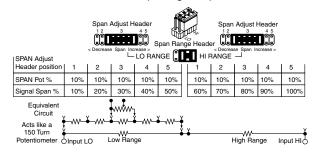
This unique five-position header expands the adjustment range of the SPAN pot into five equal 20% steps, across 100% of the input Signal Span. Any input Signal Span can then be precisely scaled down to provide any required Digital Display span from 1999 counts to 001 (one count).

SPAN Adjust Header position	1	Decrease Sp 2	an Increase	4	5	
SPAN Pot %	20%	20%	20%	20%	20%	
Signal Span %	20%	40%	60%	80%	100%	
Equivalent Circuit Input LO	Acts like	 9 75 Turn 1	-WWW- 		¥_,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	Input

### SPAN RANGE Header



When this header is provided it works in conjunction with the SPAN ADJUST Header by splitting its adjustment range into a Hi and a Lo range. This has the effect of dividing the adjustment range of the SPAN pot into ten equal 10% steps across 100% of the input Signal Span.



# ZERO To the Left Rear Turn Clockwise to

# ZERO Potentiometer (Pot)

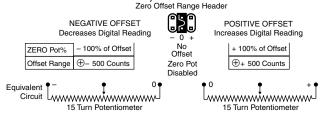
If provided, the ZERO pot is always to the left of the SPAN pot (as viewed from the rear of the meter). Typically it enables the input signal to be offset ±5% of full scale (-100 to +100 counts).



# ZERO OFFSET RANGE Header



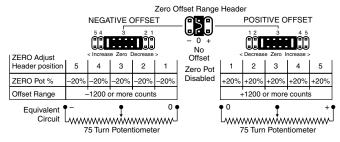
When provided, this three position header increases the ZERO pot's capability to offset the input signal, to ±25% of the digital display span. For example a Negative offset enables a 1 to 5V input to display 0 to full scale. The user can select negative offset, positive offset, or no offset (ZERO pot disabled for two step non-interactive span and offset calibration).



#### ZERO ADJUST Header



When this header is provided, it works in conjunction with the ZERO OFFSET RANGE Header, and expands the ZERO pot's offset capability into five equal negative steps or five equal positive steps. This enables virtually any degree of input signal offset required to display any desired engineering unit of measure.



# Custom Face Plates and Scales



# **Texmate Produces Thousands of Custom OEM Face Plates**

Have Texmate Design and Build a Custom Face Plate to Suit your Next project!

 Custom face plates have a non-recurring artwork charge. A serial number is then

assigned to each artwork, to facilitate re-ordering. We prefer custom logos and special artwork to be supplied in an Illustrator or Photoshop file format.

- Small Run or One-Off custom face plates incur an installation charge, and are generally printed on a special plastic film, which is then laminated to custom faceplate blanks as required.
- Large Run (300 pieces min): custom face plates are production silk screened, issued a part number, and held in stock for free installation as required by customer orders.
- OEMs may also order Custom Meter Labels, Box Labels Custom Data Sheets and Instruction Manuals.

Part Number	Description	List

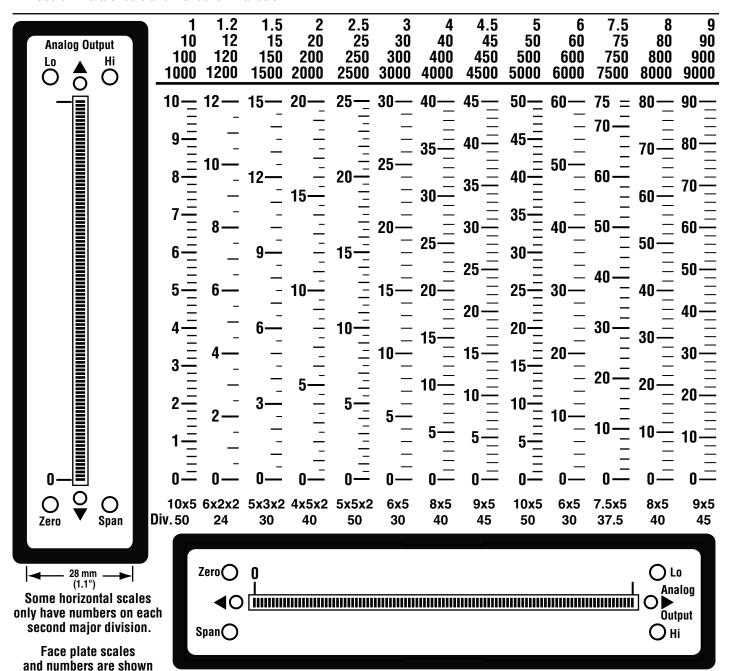
Siliali Kuli Gustolii Face piates for bargrapiis	
ART-NRC-DES Small run NRC custom faceplate design	
ART-NRC-LOGO Small run NRC custom faceplate design with Co.Logo	
ART-FS1 Small run custom Faceplate - 1 color	
ART-FS2 Small run custom Faceplate - 2 color	
ART-FS3 Small run custom Faceplate - 3 color	
ART-FS4 Small run custom Faceplate - 4 color	
ART-FS5 Small run custom Faceplate - 5 color	

Specify artwork serial number when ordering face plate installation. ie: AFB-XXXXX

#### Large Run Custom Face plates for Bargraphs

ART-NRC-FILM Large run NRC custom faceplate design & films
ART-FPMAINT Inventory management fee for 2 years
ART-FL1 Large run 300pcs custom faceplate - 1 color
ART-FL2 Large run 300pcs custom faceplate - 2 color
ART-FL3 Large run 300pcs custom faceplate - 3 color
ART-FL4 Large run 300pcs custom faceplate - 4 color
ART-FL5 Large run 300pcs custom faceplate - 5 color

When ordering Large Run Face plates to be installed specify the custom part number issued for each different artwork. ie: 77-FLXXXXX

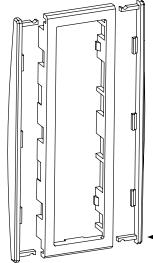


close to their actual size.

136 mm (5.35")

# Fits 6" Edgewise Pointer Meter Cut-Outs

The adapter snaps on the 36x144 mm (1.42"x5.69") case and enables single unit or stack mounting in an existing 6" edgewise pointer meter cut-out.



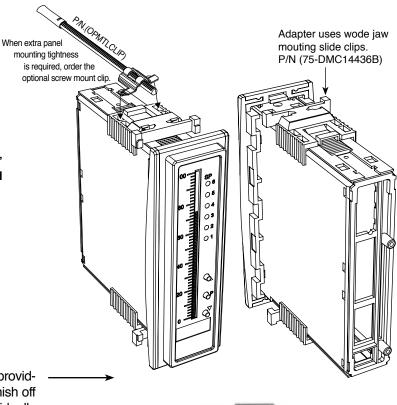
Panel Adapter
Part #: OP-PA/144X36

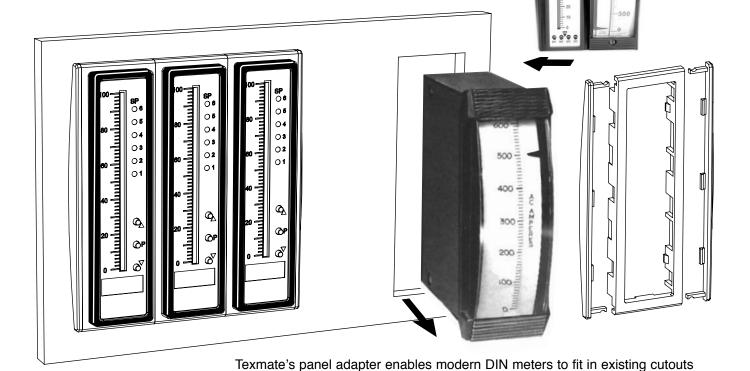
Fits existing cut-outs for 6" (150 mm) edgewise switchboard pointer meters from:

- Crompton
- G.E.
- Westinghouse
- Yokogawa
- · and most others

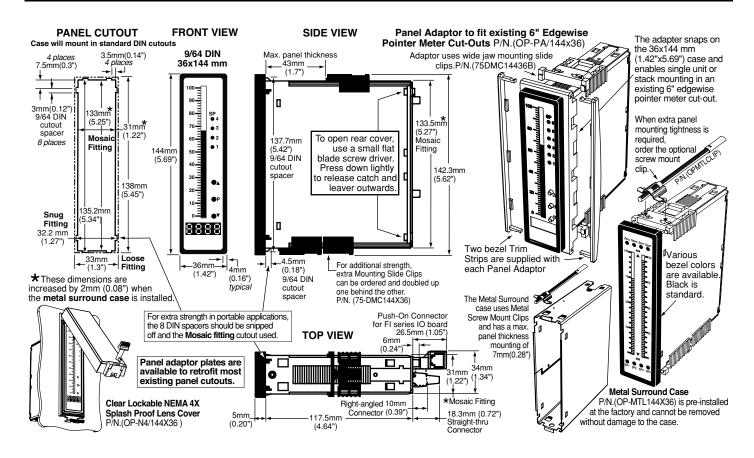
Width: 43.7 mm to 48 mm (1.72") to (1.89") Height: 143.4 mm to 149 mm (5.62") to (5.88")

Two bezel trim strips are provided with each adapter to finish off the edge of each individually mounted meter or the edge of each stack mounted array.





individually or stacked when replacing old 6" edgewise mechanical pointer meters.



# Hinged Clear Lockable Polycarbonate NEMA 4X Splash Proof Cover

This rugged, impact resistant, clear lens cover is designed to be dust and water proof to NEMA 4 and IP65 standards. The lens cover consists of a base and cover with a cam hinge and key-lock locking device.

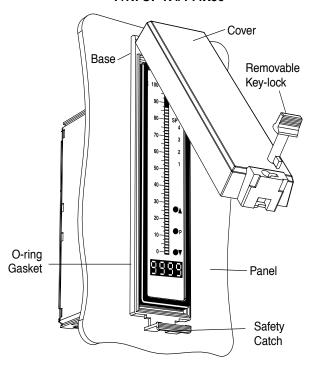
An O-ring, or neoprene gasket forms a seal between the base and the panel. When opened, a cam hinge prevents the cover from closing until pushed closed.

The cover has a tapered recess that, when closed, forms a capillary seal with a tapered ridge on the base. A capillary seal is created when capillary action causes a small amount of water to be drawn in between the two surfaces producing a water tight film around the sealing area.

For those applications, such as food processing, where fluid residues are unacceptable, apply a light coating of clear silicone grease, or other approved sealant to the mating grove to prevent any ingress of liquid and enable the cover to withstand steam cleaning.

Turning the key-lock tightens the cover to the base, ensuring seal integrity. A safety catch keeps the cover closed even when the key is turned to the open position and removed. The keyhole can also be used to attach a safety seal clip, preventing unauthorized opening.

9/64 DIN 36x144 mm (1.42"x5.69") P/N: OP-N4/144X36



# Ordering Information

BASE MODEL #		DISPLAY		POWER SUPPLY	Y	INPUT MODULES	ļ	NALOG OUTPUT	OP	TIONS / ACCESSORI	IES
FX-BQ-PROCESS	<b>]</b>		<b> </b> —		-		_		_	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: FX-B101Q-PROCESS-VR-PS1-IA01-0A2, the 2 0A's are, ZR and a 0P-PA/144X36

#### **▶ BASE MODEL NUMBER**

FX-BQ-PROCESS 144x36mm, Lynx, 101 Seg Bargraph Process input . . . .

Order Code Suffix	Description	Lis
► DISPLAY		
/R 101 Segment Red	l LED Bargraph, Vertical	
HR 101 Segment Re	d LED Bargraph, Horizontal	
	een LED Bargraph, Vertical	
HG 101 Segment Gre	een LED Bargraph, Horizontal	
POWER SUPPLY		
PS1 85-265VAC/95-30	00VDC	
PS215-48VAC/10-72	VDC	

Unless otherwise specified Texmate will ship all modules precalibrated with factory preselected ranges and/or scalings as shown in BOLD type.

IP01.   Process Loop, 4-20mA(0-100.00)
ID01 . DC-Volts, <b>2</b> /20/200V/Custom w/24V DC Exc
ID05 DC-Volts 2/20/200/Custom V DC w/Offset and 24V Exc

#### **► ANALOG OUTPUT**

OIC Isolated 16 Bit Current Output,	4-20mA
OIV Isolated 16 Bit Voltage Output,	0-10VDC

#### Special Options and Accessories

Part Number	Description				
▶ SPECIAL OPTIONS (Specify Inputs or Outputs & Req. Reading)  ZR Calibrated Range Change to another Standard Range  ZS-AOB Custom scaling of analog output for Q-series bargraphs					
► ACCESSORIES (Spe	ecify Serial # for Custom Artwork Installation)				
75-DMC14436B Sid	de Ślide Brackets-Wide opening (2 pc)				
	de Slide Brackets-stand. (2 pc) - extra set				
	tra Screw Terminal Conn., 2 Pin Power Plug				
	tra Screw Terminal Conn., 2 Pin Plug				
	tra Screw Terminal Conn., 3 Pin Plug				
	tra Screw Terminal Conn., 4 Pin Plug				
	tra Screw Terminal Conn., 5 Pin Plug				
	omplete 144x36mm Case with Bezel				
	ack Bezel for 144x36mm Case				
	etal Surround Case, includes screw mounting clips.				
	crew Mounting Clips (2 pc) - to screw tighten slide bracket				
	4x36mm clear lockable front cover-NEMA 4X, splash pro-				
	anel Adapter for 144x36mm from 6 inch cutout				

For Custom Face Plates and Scales see page 10.

Prices subject to change without notice.

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. any product which has been either repaired or replaced by Texmate

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