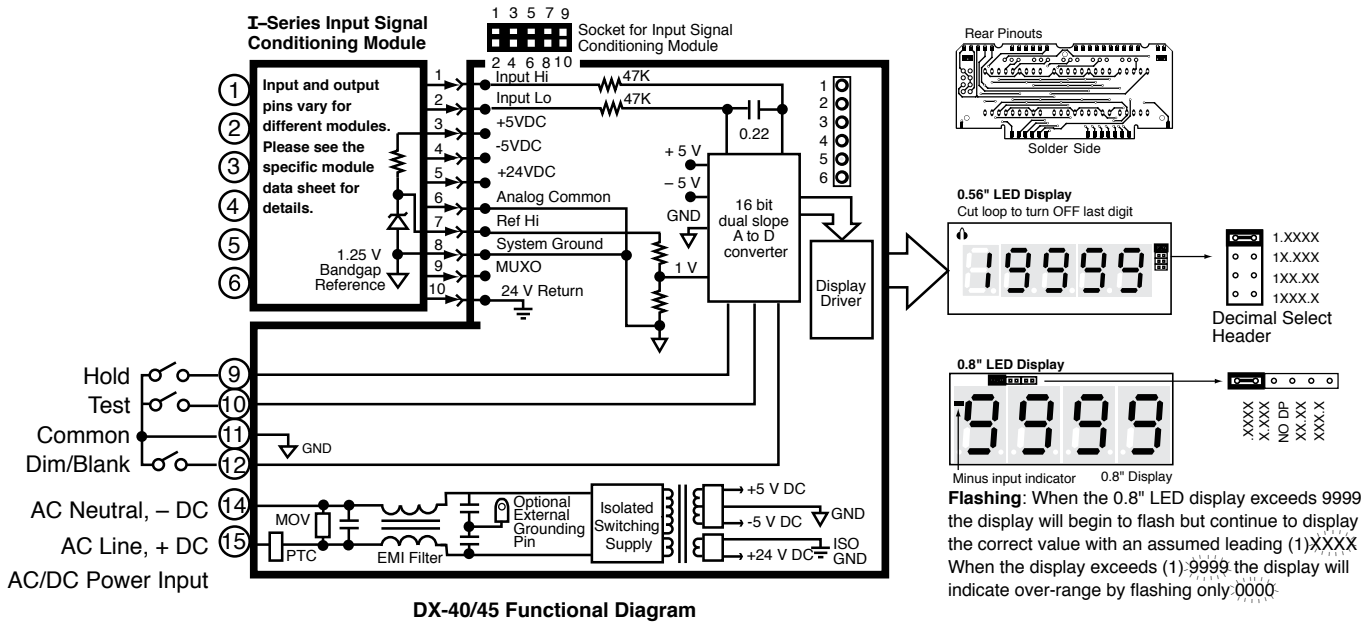
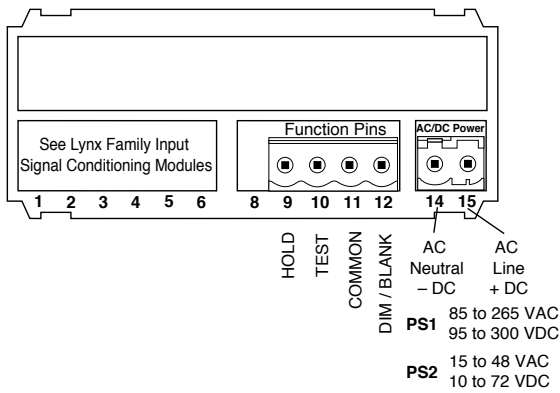


Functional Diagram



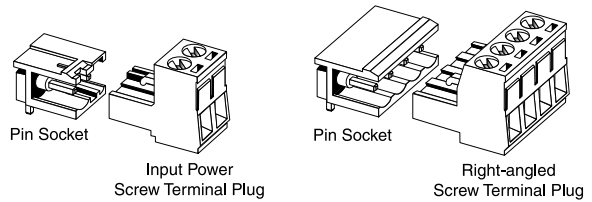
Connector Pinouts

This meter uses plug-in type screw terminal connectors for all connections.



Connectors

This meter uses plug-in type screw terminal connectors for all input and output connections. The power supply connections (pins 14 and 15) have a unique plug and socket outline to prevent cross connection. The main board uses standard right-angled connectors.



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

Pin Descriptions

Pins 1 to 6 - Input Module: See the individual pin out of the input signal conditioning module selected. Usually Pin 1 is the Signal Input High pin and Pin 3 is the Signal Input Low pin. All calibration and scaling functions are performed on the individual input signal conditioner module. See pages 6 and 7.

Pin 9 - Hold: If this pin is left unconnected the meter will operate in a free running mode. When this pin is connected to the Common Pin 11, the meter display will be latched. A/D conversions will continue, but the display will not be updated until Pin 9 is disconnected from Pin 11.

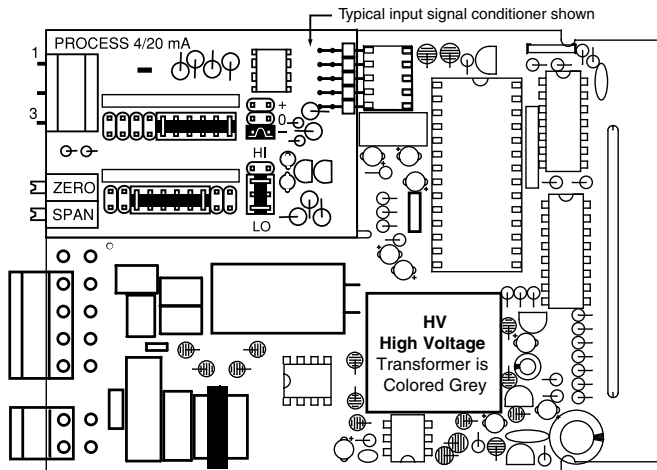
Pin 10 - Display Test: When this pin is connected to the Common Pin 11, all segments of the display light up and 1888 is displayed. This is used to detect any missing segments in the display.

Pin 11 - Common: To Hold, Test or Dim the display, the respective pins have to be connected to this Common Pin.

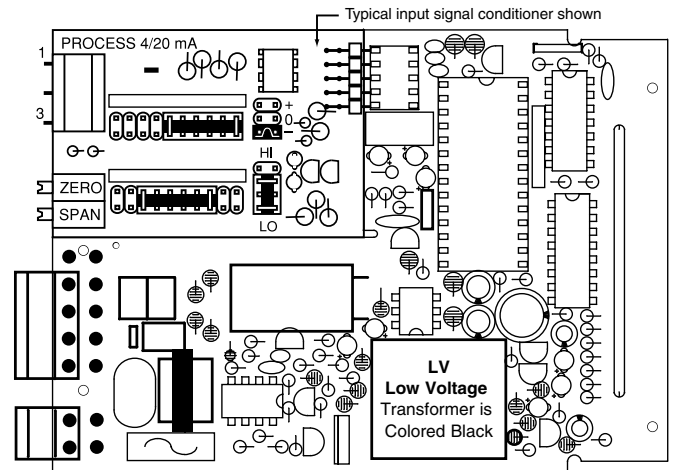
Pin 12 - Dim/Blank: When this pin is connected to the Common Pin 11 the display is blanked out. If it is connected through an external 1KΩ pot, the display may be dimmed.

Pin 14 & 15 - AC/DC Power Input: These pins are the power pins of the meter and they only accept a special polarized screw terminal plug that can not be inserted into any other input socket. The standard meter has a auto sensing AC/DC power supply that operates from 85-265 VAC/95-300 VDC (PS1 Std). An optional isolated low voltage power supply that operates from 15-48 VAC/10-72 VDC (PS2) is also available.

DX-40/45-XX-PS1 (High Voltage)



DX-40/45-XX-PS2 (Low Voltage)



I-Series Input Signal Conditioning Modules

Many additional input modules are available and others are constantly being developed. Check with your local distributor or www.texmate.com for updated information.

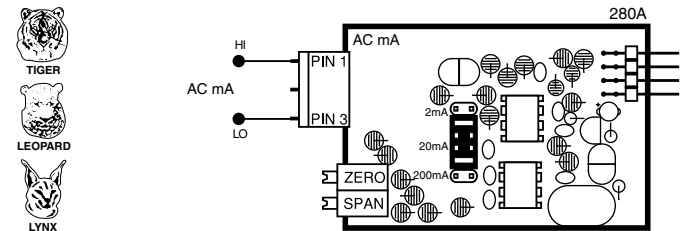
Pre-calibrated **I-Series** input modules, that have span or zero potentiometers, can be interchanged between any **I-Series** compatible meter, without recalibration, because all of the analog scaling and reference circuitry is self-contained within the module. Where appropriate, all the standard ranges shown are designed to be header selectable by the user, and Texmate's unique SPAN ADJUST Header facilitates scaling to almost any required engineering unit. See Input Module Component Glossary and Calibration on pages 6 and 8.

Unless otherwise specified Texmate will ship all modules pre-calibrated with factory preselected ranges and/or scalings as shown in **BOLD** type. Other pre-calibrated standard ranges or custom ranges may be ordered. Factory installed custom scaling and other custom options are also available (see Ordering Information, Special Options on last page).

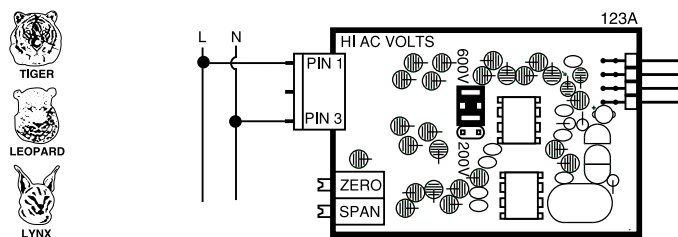
Symbols Indicate Module Compatibility Within Meter Families

	TIGER Family		LEOPARD Family		LYNX Family
	TIGER Family		LEOPARD Family		LYNX Family
	TIGER Family		LEOPARD Family		LYNX Family
ALL MODELS		SOME MODELS		MODEL SPECIFIC	

IA03: AC Milliamps Scaled RMS, 2/20/200mA AC

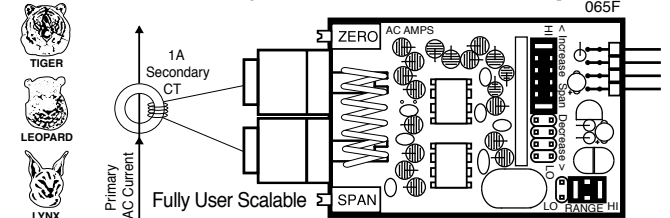


IA01: AC Volts Scaled RMS, 200/300V AC

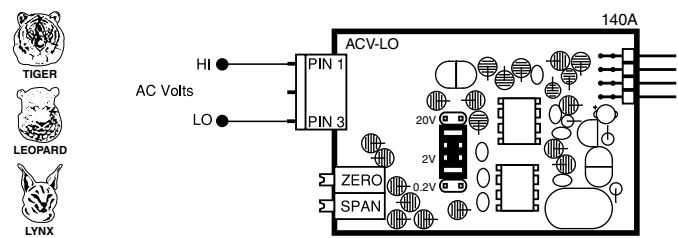


IA04: AC AC Amps Scaled RMS, 1 Amp AC

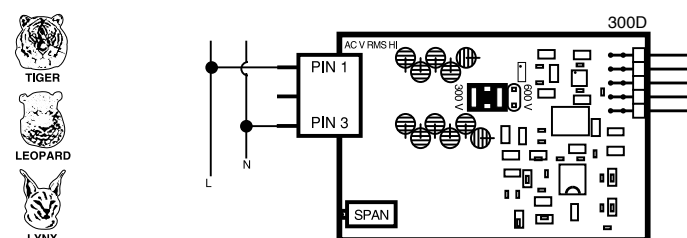
IA05: AC AC Amps Scaled RMS, 5 Amp AC



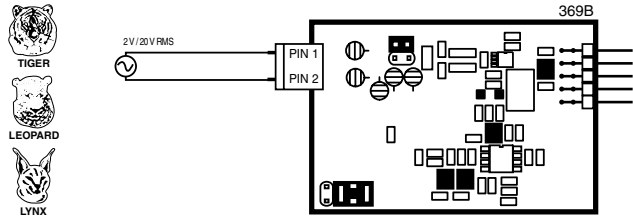
IA02: AC Volts Scaled RMS, 200mV/2V/20V AC



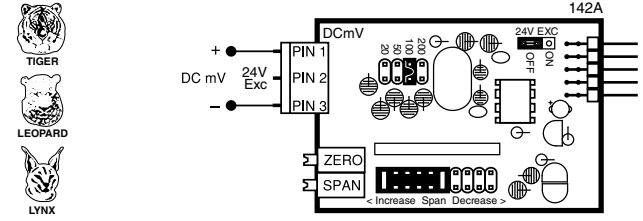
IA06: AC Volts True RMS, 300V AC



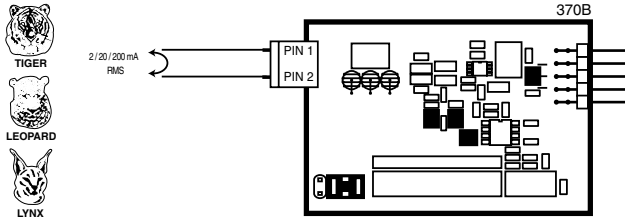
IA07: AC Volts True RMS, 200mV/2V/20V AC



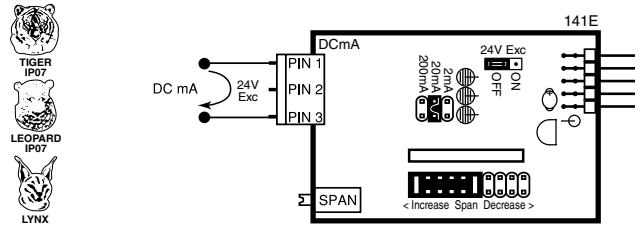
ID02: DC Millivolts, 20/50/100/200mV DC w/24V DC Exc



IA08: AC Milliamps True RMS, 2/20/200mA AC

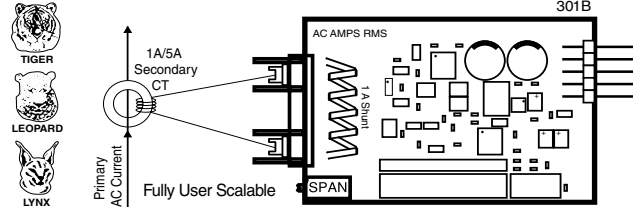


ID03: DC Milliamps, 2/20/200mA DC w/24V DC Exc



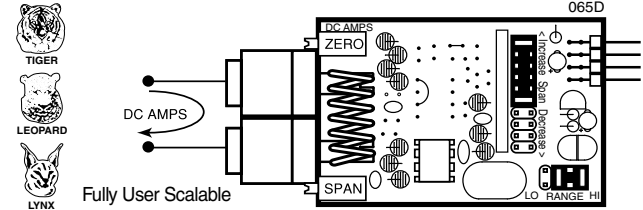
IA09: AC Amps True RMS, 1 Amp AC

IA11: AC Amps True RMS, 5 Amp AC

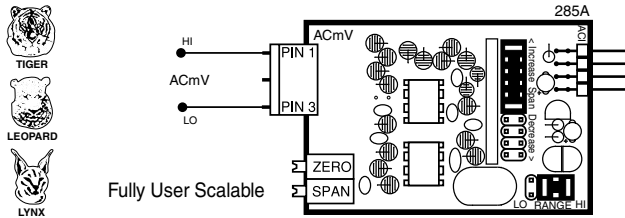


ID04: DC Amps, 5A DC

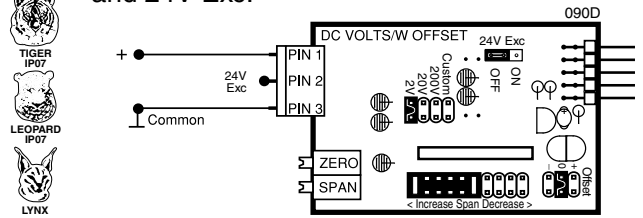
ID09: DC Amps, 1A DC



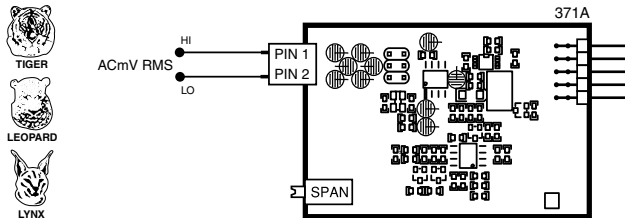
IA10: AC Millivolts, Scaled RMS, 100mV AC



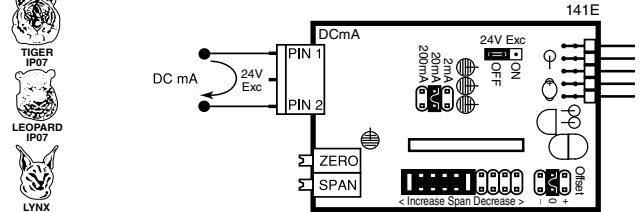
ID05: DC Volts 2/20/200/Custom V DC with Offset and 24V Exc.



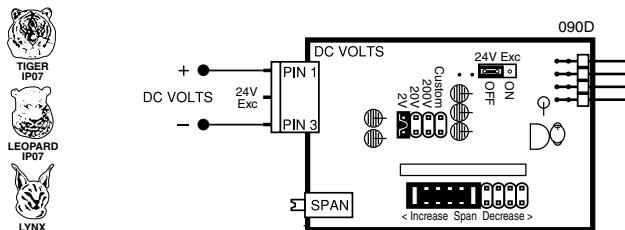
IA12: AC Millivolt RMS Sigma Delta



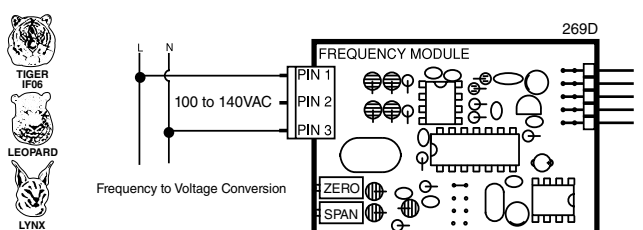
ID07: DC Milliamps, 2/20/200mA DC with Offset and 24V Exc



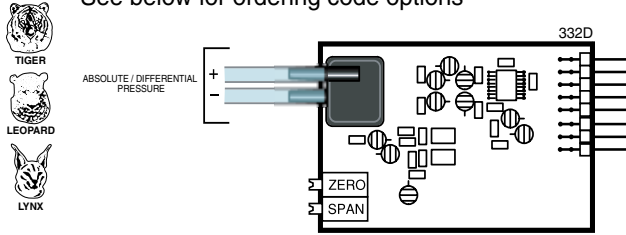
ID01: DC Volts, 2/20/200V/Custom w/24V DC Exc



IF02: Line Frequency



IGYZ: Universal Direct Pressure (Absolute or Differential/Gage)
See below for ordering code options

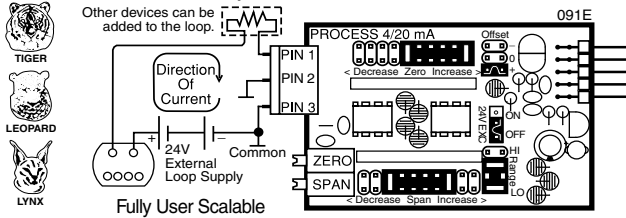


Direct Pressure (IGYX, IGYX & IGYZ) Ordering Code Options

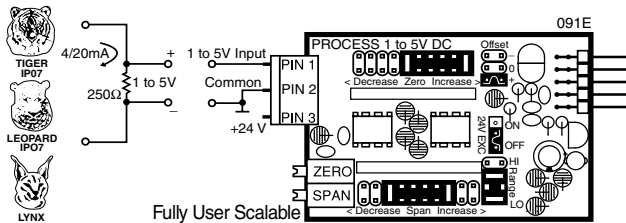
Sensor Range	CH1 Order Code	CH2 Order Code
1 psi Absolute	A	A
1 psi Differential	B	B
5 psi Absolute	C	C
5 psi Differential	D	D
15 psi Absolute	E	E
15 psi Differential	F	F
30 psi Absolute	G	G
30 psi Differential	H	H
100 psi Absolute	J	J
100 psi Differential	K	K

For Single Channel IGYX with two digital inputs, the last digit of order code is always X.
For Universal Direct Pressure IGYZ, the last digit of order code is always Z.

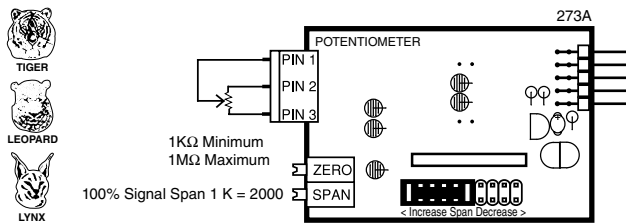
IP01: Process Loop, 4-20mA
IP02: Process Loop, 4-20mA with 24VDC EXC



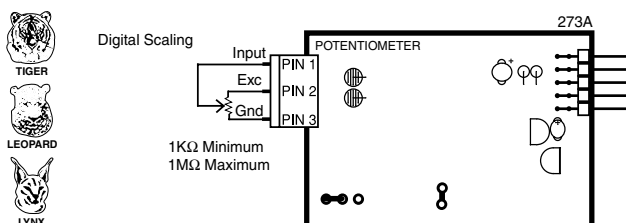
IP03: Process Input, 1-5V DC with Offset, 24V Exc



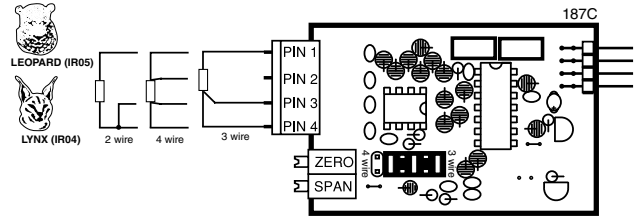
IR02: 3 wire Potentiometer 1KΩ min (0-F.S.)



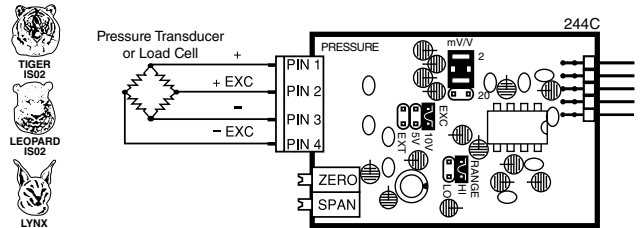
IR03: Linear Potentiometer 1KΩ min



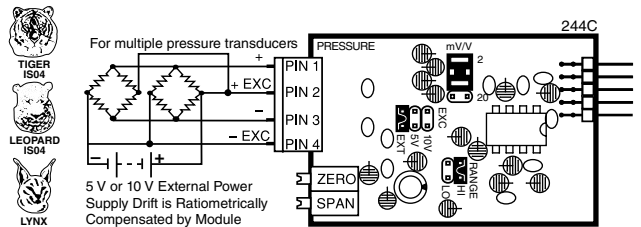
IR04: Resistance 2KΩ (Lynx only)
IR05: Resistance 2KΩ (Leopard only)



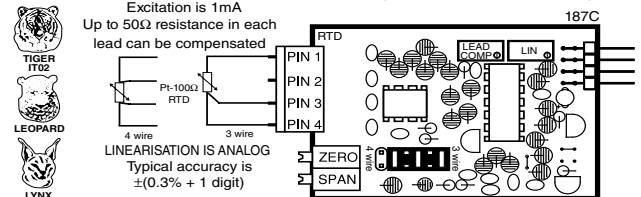
IS05: Pressure/Load Cell 20/2mV/V, 5/10V Exc 4-wire



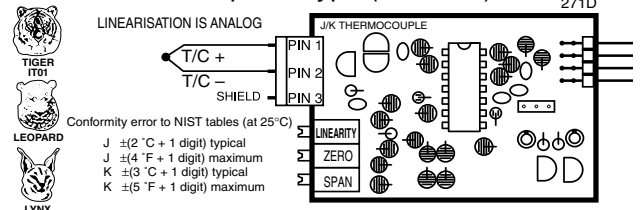
IS06: Pressure/Load Cell Ext Exc., 20/2mV/V, 4-wire



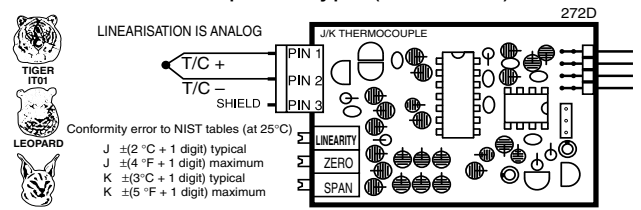
IT03: RTD, 100Ω Pt. 2/3/4-wire (-200 to 800°C)
IT04: RTD, 100Ω Pt. 2/3/4-wire (-200 to 1470°F)
IT05: RTD, 100Ω Pt. 2/3/4-wire (-199.9 to 199.9°F)
IT14: RTD, 100Ω Pt. 2/3/4-wire (-199.9 to 199.9°C)

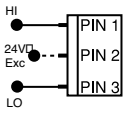


IT06: Thermocouple, J Type (0-1400 °F)
IT08: Thermocouple, J Type (0-760 °C)



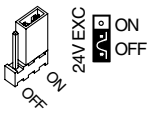
IT07: Thermocouple, K Type (0-1999 °F)
IT09: Thermocouple, K Type (0-1260 °C)





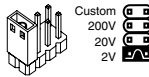
Input and Output Pins

On most modules Pin 1 is the Signal High input and Pin 3 is the Signal Low input. Typically Pin 2 is used for Excitation Voltage output.



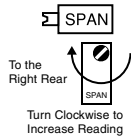
24V DC Output Header

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



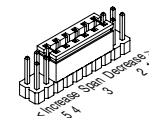
INPUT RANGE Header

Range values are marked on the PCB. Typically two to four positions are provided, which are selected with either a single or multiple jumper clip. When provided, a custom range position is only functional when the option has been factory installed.



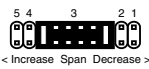
SPAN Potentiometer (Pot)

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.

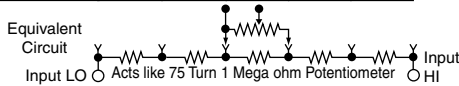


SPAN ADJUST Header

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 19999 counts to 0001 (one count).

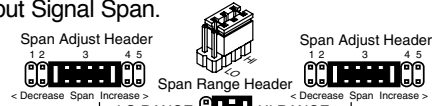
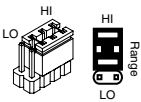


SPAN Adjust Header position	1	2	3	4	5
SPAN Pot %	20%	20%	20%	20%	20%
Signal Span %	20%	40%	60%	80%	100%

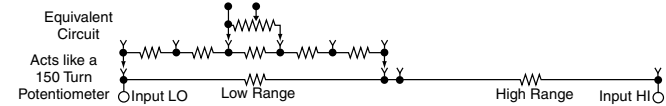


SPAN RANGE Header

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.

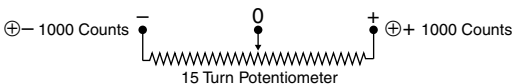
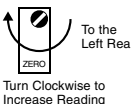


SPAN Adjust Header position	1	2	3	4	5	1	2	3	4	5
SPAN Pot %	10%	10%	10%	10%	10%	10%	10%	10%	10%	10%
Signal Span %	10%	20%	30%	40%	50%	60%	70%	80%	90%	100%

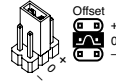


ZERO Potentiometer (Pot)

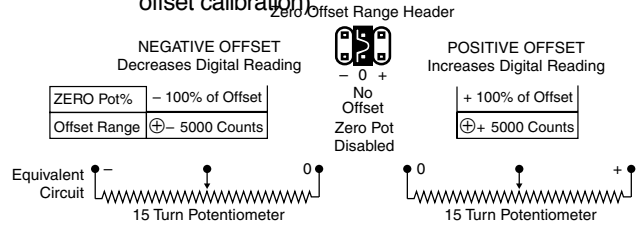
If provided, the ZERO pot is always to the left of the SPAN pot (as viewed from the rear of the meter). Typically it enables the input signal to be offset $\pm 5\%$ of full scale (-1000 to +1000 counts).



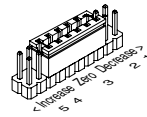
ZERO OFFSET RANGE Header



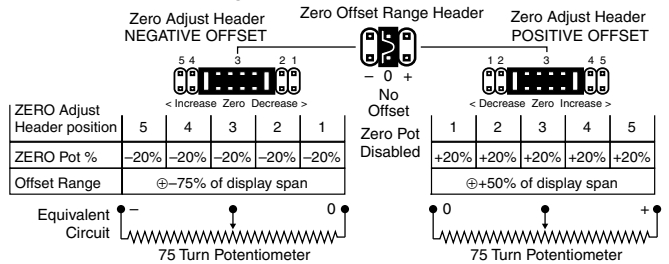
When provided, this three position header increases the ZERO pot's capability to offset the input signal, to $\pm 25\%$ of the digital display span. For example a Negative offset enables a 1 to 5V input to display 0 to full scale. The user can select negative offset, positive offset, or no offset (ZERO 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.



Input Module Calibration



WARNING: AC and DC input signals and power supply voltages can be hazardous. Do Not insert, remove or handle modules with live wires connected to any terminal plugs.

Basic standard range calibration of direct reading modules that utilize either Auto Zero or a ZERO pot, an INPUT RANGE Header and or a SPAN pot.

- 1 If the module has an INPUT RANGE Header, reposition the jumper clip to select the desired input signal range.
- 2 Apply a zero input or short the input pins. The display will auto zero, or if the module has a ZERO pot, it should be adjusted until the display reads zero.
- 3 Apply a known input signal that is at least 20% of the full scale input range and adjust the SPAN pot until the display reads the exact input value.
- 4 Decimal Points. The selection or positioning of decimal points has no effect on the calibration of the modules

Wide range scaling, in engineering units not requiring offsets, with modules that utilize auto-zero or a ZERO pot, a SPAN RANGE Header and or a SPAN ADJUST Header.

Texmate's unique SPAN ADJUST and SPAN RANGE Headers provide the circuit equivalent of an ultra-precision one megohm 75 or 150 turn potentiometer that can infinitely scale down any Input Signal SPAN to provide any full scale Digital Display Span from 19999 (counts) to 0001 (one count).

Input Module Calibration Procedures Continued

If the module has an INPUT RANGE Header, and the required full scale Digital Display Span (counts) is to be larger than the directly measured value of the input Signal Span, then the next lower range on the INPUT RANGE Header should be selected. The resulting over range Signal Span is then scaled down, by selecting the position of the SPAN RANGE Header and or the SPAN ADJUST Header, which will reduce the input Signal Span to a percentage, that the required Digital Display Span can be reached by calibration with the SPAN pot.

Example A: 0 to 10 V to read 0 to 18000 gallons.

Signal Span = 10V, Digital Display Span = 18000 counts

- 1 Select the 2 V INPUT RANGE Header position. This will provide a digital display of 18000 counts with an input of only 1.8 V which is $(1.8 \div 10) = 18\%$ of the examples 10 V Signal Span.
- 2 To scale down the Signal Span to 18% select the 20% Signal Span position on the SPAN ADJUST Header (position 1) or if the module has a SPAN RANGE Header, select (LO Range) and 20% Signal Span position on the SPAN ADJUST Header (position 2).
- 3 Apply a zero input or short the input pins. The display will auto zero, or if the module has a ZERO pot, it should be adjusted until the display reads zero.
- 4 Apply 10 V and adjust the SPAN pot until the display reads 18000.

Large offset scaling and calibration of process signal inputs with modules that utilize ZERO ADJUST Headers and or ZERO OFFSET RANGE Headers.

Texmate's unique ZERO OFFSET RANGE Header enables the use of a simple two step scaling and calibration procedure for those process signals that require large offsets. This eliminates the back and forth interaction, between zero and span settings, that is often required to calibrate less finely engineered products.

The first step is to set the ZERO OFFSET RANGE Header to the center position (No Offset) and scale down the Input Signal Span to a percentage that will enable calibration with the SPAN pot to reach the required Digital Display Span.

The second step is to set the ZERO ADJUST and or ZERO OFFSET RANGE Header to provide a positive or negative offset of sufficient counts that calibration with the ZERO pot will offset the Digital Display Span to produce the required digital reading.

Example B: 1 to 5 V to read -100.0 to 1500.0 °C.

Signal Span = 4V, Digital Display Span = 16000 counts

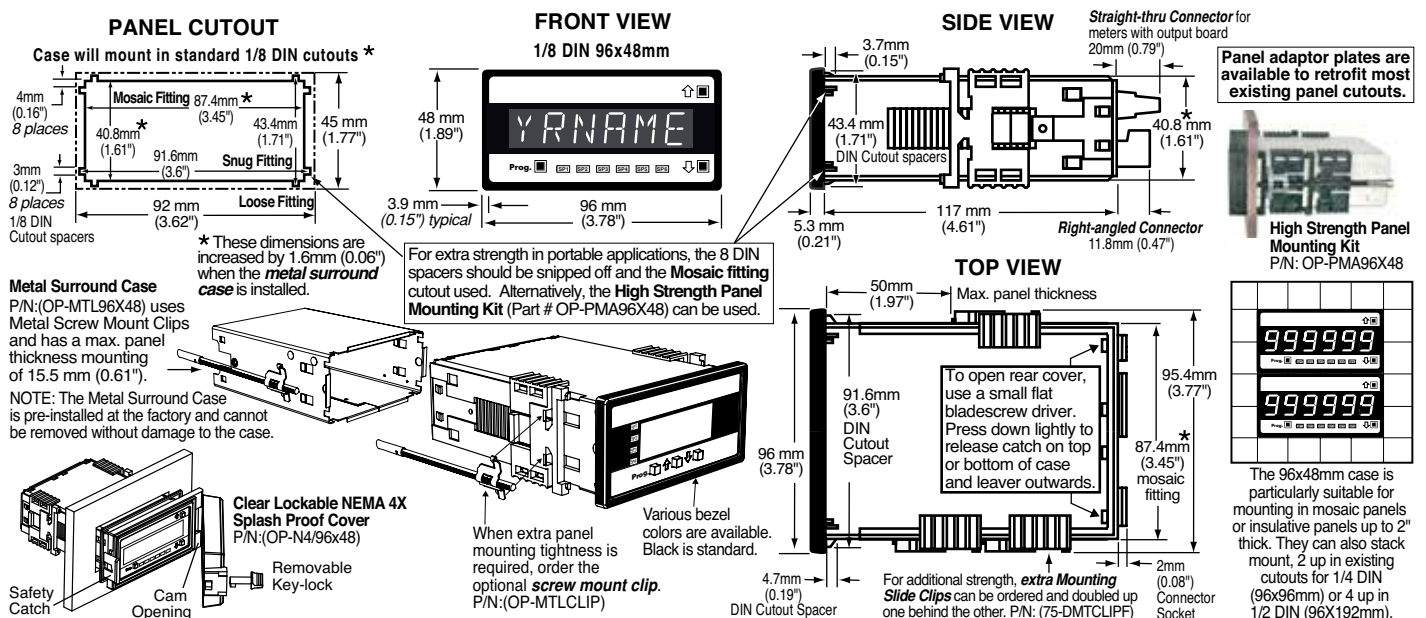
- 1 If the module has an INPUT RANGE Header the 2 V position should be selected. This will provide a digital display of 16000 counts for an input of 1.6 V which is $(1.6 \div 4) = 40\%$ of the examples 4 V signal span. To scale down the Signal Span to 40% select the 40% Signal Span position on the SPAN ADJUST Header (position 2).
- 2 If the module is a Process Input 1-5 V DC type, select the (Hi Range) position on the SPAN RANGE Header and the 100% Signal Span position on the SPAN ADJUST Header (position 5, max increase). This will provide a digital display of 16000 counts for an input of 4V which is 100% of the examples 4V Signal Span.
- 3 Set the ZERO OFFSET RANGE Header to the center position (no offset). Apply 1 V and adjust the SPAN pot until the display reads 400 . A 4V input would then read 16000 counts.
- 4 Set the ZERO OFFSET RANGE Header to the negative offset position. If the module has a ZERO ADJUST Header select the position that will provide a negative offset of ≈ -500 counts. Apply 1 V and adjust the ZERO pot until the display reads -100. Apply 5 V and check that the display reads 15000. Select decimal point 1XXX.X to display -100.0 to 1500.0.

Example C: 4 to 20 mA to read 00.00 to +100.00%

Signal Span = 16 mA, Digital Display Span = 10000 counts.

- 1 The full scale Signal Span of the Process Input 4-20 mA modules is 0 to 20 mA for a full scale Digital Display Span of 0 to 20000 counts. This will provide a digital display of 10000 counts with an input of only 10 mA which is $(10 \div 16) = 62.5\%$ of the examples 16 mA signal span.
- 2 To scale down the Signal Span to 62.5% select the (Hi Range) Position on the Span Range Header and the 70% Signal Span position on the SPAN ADJUST Header (position 2).
- 3 Set the ZERO OFFSET RANGE Header to the center position (no offset). Apply 4 mA and adjust the SPAN pot until the display reads 2500 . A 16 mA input would then read 10000 counts.
- 4 Set the ZERO OFFSET RANGE Header to the positive offset position. If the module has a ZERO ADJUST Header select the position that will provide a negative offset of ≈ -2500 counts. Apply 4 mA and adjust the ZERO pot until the display reads 0000. Apply 20 mA and check that the display reads 10000. Select decimal point 1XXX.X to display 000.0 to 100.00.

Case Dimensions



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).



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: DX-45-DR-PS1-IA01-OA2, the 2 OA's are, CR-CHANGE and an OP-N4X/96x48

► BASIC MODEL NUMBER

DX-40 96x48mm, Lynx, Large 4 Digit
 DX-45 96x48mm, Lynx, 4.5 Digit.

Standard Options for this Model Number

Order Code Suffix	Description	List
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► DISPLAY

DR . . . Red LED, 0.56 inch high
 DB . . . Super-bright Red LED, 0.56 inch high
 DG . . . Green LED, 0.56 inch high
 LG . . . Large Green LED, 0.8 inch high
 LR . . . Large Red LED, 0.8 inch high.

► POWER SUPPLY

PS1 . . 85-265VAC/95-300VDC
 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/**300V 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/**300V 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-Milliamp, 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-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
 IGYZ . . Universal Direct Pressure

*View the IG- Ordering Code on page 5 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
 IR02 . . 3-Wire Potentiometer 1K Ω min (0-F.S.)
 IR03 . . Linear Potentiometer, 3-wire, 1K Ω min.
 IR04 . . Resistance 2K Ω
 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
 IT03 . . RTD, 100 Ω Pt. 2/**3/4-wire (-200 to 800°F)**
 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**)
 IT09 . . Thermocouple, K Type (**0-1260°C**)
 IT14 . . RTD, 100 Ω Pt. 2/**3/4-wire (-199.0 to 199.0°C)**

Special Options and Accessories (OA's)

Part Number	Description	List
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► SPECIAL OPTIONS (Specify Input & Req. Reading)

CR-CHANGE . Calibrated Range Change to another Standard
 CR-CHANGE . . Calibrated Range Change to another Standard Range. .
 CS-3/3.5/4 . . . Custom display scaling within std.ranges
 CSS-SETUP . . . NRC to set-up custom special scaling beyond the std. range. .
 CSS-34/INSTL . Installation, specify serial #CSS
 OP-DXEXTDP . . External Dec. Pt. W/Conn. Option-Factory Installed . .

► ACCESSORIES (Specify Serial # for Custom Artwork Installation)

75-DBBZ9648F . Extra Black Bezel for 96x48mm Case
 75-DMTCLIPF . . Side Slide Brackets (2 pc) - extra set, extra strength . .
 76-D35G-N4 . . . NEMA 4 Green LED Faceplate, Factory Installed . .
 76-D35LG-N4 . . . NEMA 4 Large Green LED Faceplate, Factory Installed .
 76-D35LR-N4 . . . NEMA 4 Large Red LED Faceplate, Factory Installed .
 76-D35R-N4 . . . NEMA 4 Red LED Faceplate, Factory Installed. .
 CN-L18 Dual Row 18 Pin Edge Connector, Solder Type . .
 DN.CAS96X48B . Complete 96 X 48 mm Case with bezel
 OP-MTLCLIP . . . Screw Mount Clips (2 pc) - to screw tighten slide brackets
 OP-MTL96X48 . . Metal Surround Case, includes screw mounting clips
 OP-N4X/96X48 . . 96x48mm clear lockable front cover-NEMA 4X, splash proof

Many other options and accessories are available. See full price list for more details.
 Prices subject to change without notice.

WARRANTY

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