





UM-35-SG

Pressure or Load Cell Meter 3 1/2 DIGIT with 0.56" LEDs in a NEMA type 1 Style Case

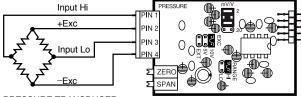
An cost-effective meter to measure 4 wire pressure transducers, strain gauges and load cells. .

General Features

The UM-35-SG has two header selectable transducer output ranges of 2mV/V and 20mV/V. Both ranges can provide a full scale display of 2000 counts from the precision ratiometrically compensated 5V or 10V DC excitation provided by the meter. The meter accepts 4 Wire, and like all UM-Series meters, is easily scaled to display in engineering units such as psi, bar, kbar, kpa, feet, lbs, and tons.

Typical Application Connections

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



PRESSURE TRANSDUCER

Low Range Adjustment : 0-1000 counts Hi Range Adjustment : 1001-1999 counts

Specifications			
Input Configuration:Di	fferential		
•	ccepts inputs from 2mV/V or 20mV/V ansducers		
	/ or 10V DC. Ratiometrically mpensated to operate with all transducer tput ranges.		
A/D Converter:12	Bit Dual Slope		
Accuracy:±(0.05% of reading + 2 counts)		
Temperature Coefficient: 100 ppm/°C (Typical)			
Warm Up Time:2	minutes to specified accuracy		
Conversion Rate:3	conversions per second (Typical)		
Gi	1/2 digit 0.56" Red LED display (std), reen or Super Bright Red are optional. ange 0 to 1999 counts.		
Decimal Selection:	eader under face plate, X•X•X•X•		
Over-range Indication:1 (MSD) displayed all other digits blank			
Power Supply (std):12	20/240V AC, 50/60/400 Hz. approx 1.5W.		
(Optn) VO-DC/ISOIso	plated Switcher. 9 to 36V DC/12 to 24V AC		
Operating Temperature:1	0 to 50 °C		
Storage Temperature:20 to 70 °C.			
Relative Humidity:95	% (non-condensing)		
De 0.1 co	ezel 3.78"Wx1.89"H (96mm x 48mm) epth behind bezel 3.36" (83.5mm) Plus 5 to .9" (12.7 to 22.8mm) depending on nnector used.		
Weight:N	N. 12oz (0.34kg)		
15	.6oz (0.44kg). when packed.		

UM-Series utility meters for switchboard and process indication

UM-35-ACAAC amps, Scaled or True RMS, (1 or 5 Amp internal shunt), 3.5 digit.
UM-35-ACVAC volts, Scaled or True RMS. 199.9V AC/700V AC header selectable ranges,
3.5 digit.
UM-35-DCADC mV ±20mV/±50mV/±100mV/±200mV header selectable ranges, 3.5 digit
UM-35-DCVDC Volts ±2V/±20V/±200V DC header selectable ranges, 3.5 digit.
UM-40-ACA AC amps, Scaled or True RMS, (1 or 5 Amp internal shunt), 4.0 digit.

UM-40-ACV AC volts, Scaled or True RMS. 199.9V AC/700V AC header selectable ranges, 4.0 digit.

UM-45-DCA DC mV ±20mV/±50mV/ ±100mV/±200mV header selectable ranges, 4.5 digit UM-45-DCV DC Volts ±2V/±20V/±200V DC Header selectable ranges, 4.5 digit.

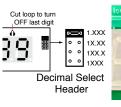
UM-35-CLProcess 4 to 20mA (100.0), easily user scalable in engineering units from
–1999 to +1999. 3.5 digit
UM-35-HZ15Hz to 199.9Hz or optional 40Hz to 400Hz up to 500V AC , 3.5 digit.
UM-35-Pressure. Pressure, strain gage and load cell, 4 and 6 wire, 5V DC excitation,
Header Selectable Sensitivity 2mV/V, 5mV/V, 10mV/V, 20mV/V, 3.5 digit
UM-35-JFJ thermocouple input, 1° resolution, order °C or °F, 3.5 digit
UM-35-KFK thermocouple input, 1° resolution, order °C or °F, 3.5 digit
UM-35-RTD/F 100Ω platinum RTD, 3 or 4 wire, order °C or °F and 0.1° or 1°, 3.5 digit
UM-45-CL Process 4 to 20mA (100.0), easily user scalable in engineering units from
-19999 to +19999. 4.5 digit

Calibration Procedure

- Select the appropriate position on the INPUT RANGE SELECT Header, to correspond with the mV/V output of the transducer being used.
- 2. Connect the transducer to the UM-35-SG as shown in the connection diagram.
- 3. With no pressure or load being applied to the transducer, adjust the ZERO pot so that the display reads 000.
- 4. Apply a known input, and adjust the SPAN pot until the meter displays the required reading for the pressure or load being applied.
- . The UM-35-SG meter is now calibrated and ready for use.

Decimal Point Selection

Decimal selection is made by moving the jumper to the indicated position on the header for the decimal required on the front of the display board.



To open meter, insert a flat head screwdriver or similar instrument in both slots on the side of the cover and pry open. The UM-Series meters slide out from the front of the case as a complete assembly.

Signal Conditioning Components



SPAN Potentiometer (Pot)

The 15 turn SPAN pot is always on the right side (as viewed from the front of the meter). Typical adjustment is 100% of the input signal range.



ZERO Potentiometer (Pot)

The Optional ZERO pot when installed is always to the left of the SPAN pot (as viewed from the front of the meter). Typically it enables the displayed reading to be offset ± 100 counts.



Span Pot Adjustment Range Header

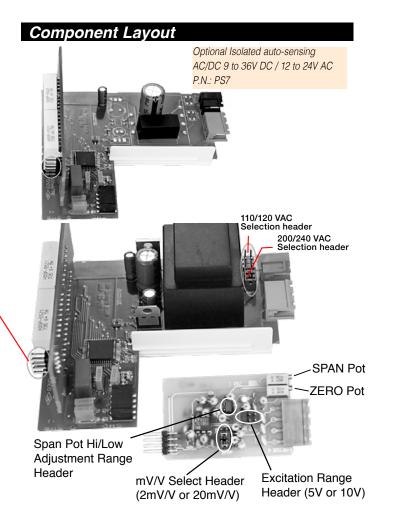
Low : 0-1000 Counts Hi : 1001-1999 Counts

Optional Face Plate Descriptors

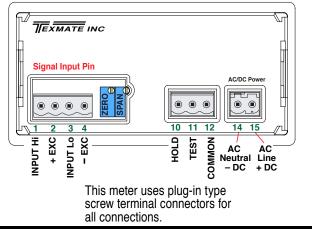


To customize the face plate, clear adhesive label containing various popular descriptors may be ordered. Choose the descriptor desired, peel off the adhesive backing and align the descriptor in the center right of the faceplate.

P.N.: DU-CASEDES

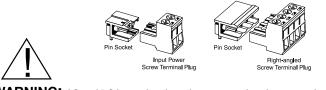


Connector Pinouts



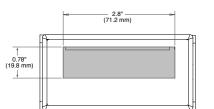
Connectors

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.

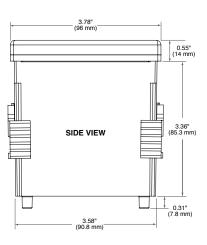


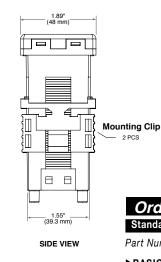
WARNING: AC and DC input signals and power supply voltages can be hazardous. Do Not connect live wires to screw terminal plugs, and do not insert, remove or handle screw terminal plugs with live wires connected.

UM Case Dimensions and Panel Cutouts



FRONT VIEW

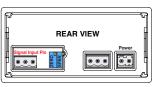




3.58" (91mm)

Panel Cutout

1.64" (41.6mm)



Clear Lockable Water-proof Cover

The clear lockable cover is designed to be dust and waterproof to NEMA-4X, IP65 standards. The assembly consists of a base and a cover with a cam hinge and key-lock fastening mechanism. An O-ring, or neoprene gasket forms a seal between the base and the panel. The cam hinge prevents the cover from closing when opened until pushed closed. The cover has a tapered recess that, when closed, forms a seal with a tapered spigot on the base. A key-lock employs a cam locking device to force the spigot into the recess, ensuring seal integrity. A safety catch keeps the cover closed even when the key is removed, and the keyhole can be used to attach a safety seal clip,





Contact: Industrial Process Measurement, Inc. 3910 Park Avenue, Unit 7 Edison, NJ 08820 732-632-6400 support@instrumentation2000.com htp://www.instrumentation2000.com

Warranty and User's Responsibility

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 Texmate's liability exceed the original purchase price. The aforementioned provisions do not extend the original warranty period on y product which has been either repaired or replaced by Texmate.

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.

Ordering Information			
Standard Options for this Model Number			
Part Number	Description	l ist	
► BASIC MODEL NUMBER tandard display and standard power supply unless optional versions are ordered.			
UM-35-SG	Pressure/Load Cell 2mV/20mV/V 5/10V Exc 4-wire Input Module : IS05		
►DISPLAY			
UM-BRIGHT	O.56" Red LEDs		
► POWER SUP	PLY		
PS7	100/120 or 200/240VAC 60/50Hz User selectable Isolated auto-sensing AC/DC 9 to 36V DC/12 to 24V AC 5 VDC/200mA		
Special Option	ns and Accessories		
Part Number	Description	List	
SPECIAL OPTIONS (Specify Inputs & Req. Reading)			
	Input Range Change to another Standard Range		
► ACCESSORIES			
75-DTP2X9624	Panel cutout metal trim plate 96x48mm (2x1/16 DIN &1/8 DIN)		
NEMA.RPUM	.96x48mm clear lockable front cover NEMA 4X, splash proof .Case with sliding mounting clips and dust & splash proof faceplate.		
ART-FS1 ART-FS2 ART-FS3	NRC for Artwork & set-up Custom Faceplate and/or Descriptor Produce & Install Custom Faceplate per meter - 1 color no-min Produce & Install Custom Faceplate per meter - 2 color no-min Produce & Install Custom Faceplate per meter - 3 color no-min . Clear adhesive descriptors label for face plate		

Custom Face Plates

Texmate Produces Thousands of Custom OEM Face Plates. Have Texmate Design and produce a Custom Face Plate for your next project!

• Custom face plates have a non-recurring artwork charge. A serial number is then assigned to each artwork to facilitate reordering.

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