



PX654, PX656



PX653, PX655*



PX653, PX654, PX655, PX656
 Pressure Transducer
 M1436/0902

COMMON SPECIFICATIONS FOR ALL UNITS

Accuracy: ±0.25% FS (BFSL)
 (Based on best fit straight line, although NIST cal. sheet is based on terminal point, therefore NIST cal. sheet could report a max. accuracy of 0.5% TP.)
 Linearity: ±0.25% FS (BFSL)
 Hysteresis: ±0.02% FS
 Repeatability: ±0.05% FS
 Operating Temp.:
 PX653, PX655: -20° to 160°F (-29° to 72°C)
 PX654, PX656: -20° to 185°F (-29° to 85°C)
 Compensated Temp.:
 PX653, PX655: 35° to 135°F (2° to 57°C)
 PX654, PX656: 0° to 160°F (-18° to 72°C)
 Storage Temp.:
 PX653, PX655: -40 to 180°F
 PX654, PX656: -40 to 210°F
 Proof Pressure: PX653 { 15 PSI PX654 { 20 PSI
 Burst Pressure: PX655 { 25 PSID PX656 { 50 PSID

Static Pressure:
 PX653, PX655: 15 PSI
 PX654, PX656: 100 PSI
 Proc. Media: Clean, dry clean non-corrosive gases
 Thermal Effects:
 Zero: 0.02% FS/°F
 Span: 0.02% FS/°F
 Sensor Type: Capacitance
 Response Time: 250 ms
 Enclosure:
 PX653, PX655: NEMA 2
 PX654, PX656: NEMA 4X
 Pressure Port:
 PX653, PX655: 1/8 and 1/4 barbed fittings
 PX654, PX656: 1/4 NPTF
 Electrical Connection:
 PX654, PX656: Screw terminal
 Two 1/2 NPTF conduit

PX653 & PX654 (VOLTAGE OUTPUT)

EXCITATION: 12-36Vdc
 OUTPUT: 1-5Vdc
 SUPPLY CURRENT: <5mA
 WEIGHT:
 PX653: 13 oz. (368 g)
 PX654: 2.1 lb. (955 g)

PX655 & PX656 (ANALOG OUTPUT)

EXCITATION: 12-36Vdc
 OUTPUT: 4-20mA (2 wire)
 MAX. LOOP RES.: (supply voltage -10) x 50 ohms
 WEIGHT:
 PX655: 13 oz. (368 g)
 PX656: 2.1 lb. (955 g)

HANDLING PRECAUTIONS

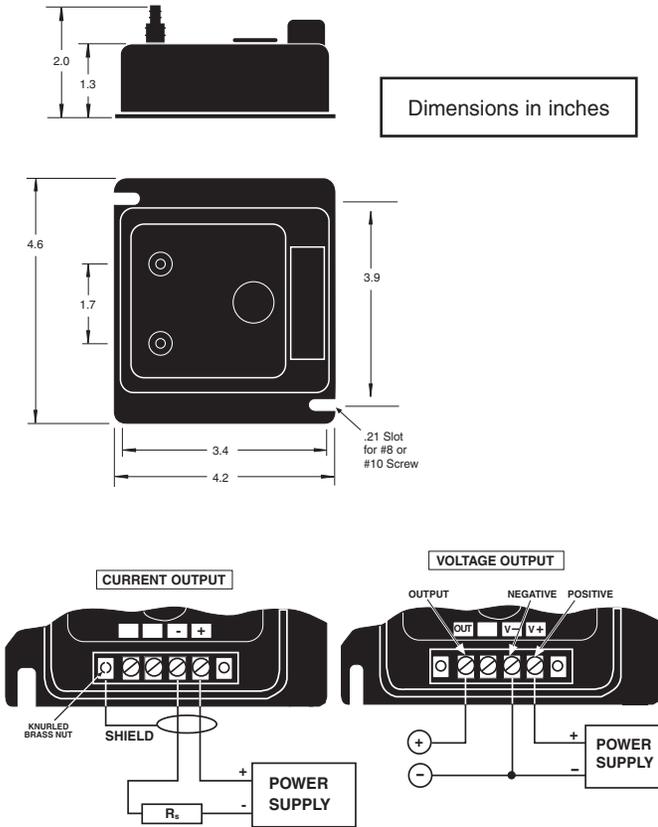
This sensor has a high insulation resistance. It can be damaged when exposed to high static discharges. Good instrumentation grounding practices should be used during handling, testing and installation.

*CE Approval is only available on PX655 and valid if connected per the wiring diagram see reverse.

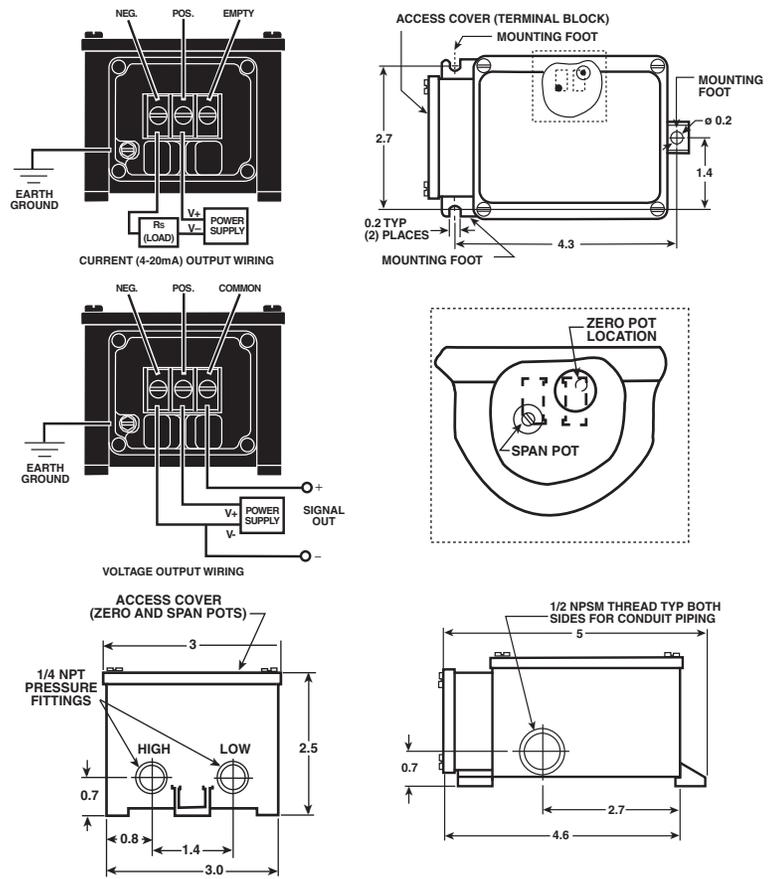
CALIBRATION REPORT

All models are tested to meet or exceed the published specifications. Calibration testing was performed using NIST traceable instrumentation. All sensors come calibrated. **DO NOT ATTEMPT TO RECALIBRATE SENSOR, UNLESS YOU HAVE A KNOWN PRESSURE SOURCE THAT IS AT LEAST 5 TIMES MORE ACCURATE THAN THE SENSOR.**

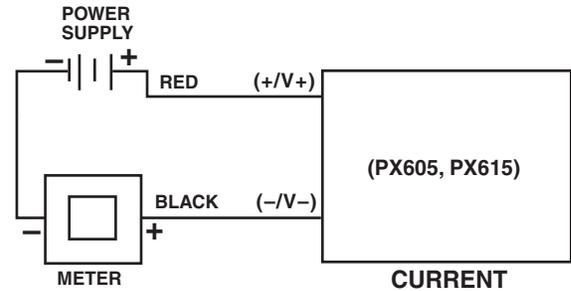
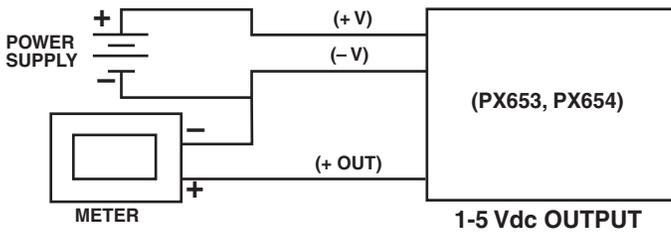
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WIRING



WARRANTY

OMEGA warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of **37 months** from date of purchase. OMEGA's Warranty adds an additional one (1) month grace period to the normal **three (3) year product warranty** to cover handling and shipping time. This ensures that our customers receive maximum coverage on each product. If the unit malfunctions, it must be returned to the factory for evaluation. Our Customer Service Department will issue an Authorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be defective, it will be repaired or replaced at no charge. However, this WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of being damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; misapplication; misuse or other operating conditions outside of OMEGA's control. Components which wear or are damaged by misuse are not warranted. These include contact points, fuses, and triacs.

We are glad to offer suggestions on the use of our various products. Nevertheless, OMEGA warrants only that the parts manufactured by it will be as specified and free of defects.

OMEGA MAKES NO OTHER WARRANTIES OR REPRESENTATIONS OF ANY KIND WHATSOEVER, EXPRESS OR IMPLIED, EXCEPT THAT OF TITLE, AND ALL IMPLIED WARRANTIES INCLUDING ANY WARRANTY OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE HEREBY DISCLAIMED.

LIMITATION OF LIABILITY: The remedies of buyer set forth herein are exclusive, and the total liability of OMEGA with respect to this order, whether based on contract, warranty, negligence, indemnification, strict liability or otherwise, shall not exceed the purchase price of the component upon which liability is based. In no event shall OMEGA be liable for consequential, incidental or special damages.

Every precaution for accuracy has been taken in the preparation of this manual, however, OMEGA ENGINEERING, INC. neither assumes responsibility for any omissions or errors that may appear nor assume liability for any damages that result from the use of the products in accordance with the information contained in the manual.

OMEGA's policy is to make running changes, not model changes, whenever an improvement is possible. This affords our customers the latest in technology and engineering.

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RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to OMEGA's Customer Service Department. Call toll free in the U.S. and Canada: 1-800-622-2378, Fax: 203-359-7811; International: 203-359-1660; Fax: 203-359-7807.

BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, YOU MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OUR CUSTOMER SERVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the outside of the return package and on any correspondence.

FOR **WARRANTY RETURNS**, please have the following information available BEFORE contacting OMEGA:

1. P.O. number under which the product was PURCHASED.
2. Model and serial number of the product under warranty, and
3. Repair instructions and/or specific problems you are having with the product.

FOR **NON-WARRANTY REPAIRS, CALIBRATION**, consult OMEGA current repair/calibration charges. Have the following information available BEFORE contacting OMEGA:

1. Your P.O. number to cover the cost of the repair/calibration.
2. Model and serial number of the product, and
3. Repair instructions and/or specific problems you are having with the product.