

# **COMMON SPECIFICATIONS FOR ALL UNITS**

Accuracy: ±0.50% 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: ±0.30% FS (BFSL)

Linearity: Hysteresis: Repeatability: Operating Temp.: PX653, PX655: PX654, PX656: Compensated Temp.: PX653, PX655: PX654, PX656: Storage Temp.: PX653, PX655: PX654, PX656: Proof Pressure: Burst Pressure:

±0.30% FS (BFSL) ±0.02% FS ±0.05% FS −20° to 160°F (−29° to 72°C) −20° to 185°F (−29° to 85°C) 35° to 135°F (2° to 57°C) 0° to 160°F (−18° to 72°C) −40 to 180°F

-40 to 210°F PX653 {15 PSID PX654 {20 PSID PX655 {25 PSIS PX656 {50 PSIS

### PX653 & PX654 (VOLTAGE OUTPUT)

EXCITATION: OUTPUT: SUPPLY CURRENT: WEIGHT: PX653: PX654:

12-36Vdc 1-5Vdc <5mA 14 oz. (397 g) 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.

#### Static Pressure: PX653, PX655 PX654, PX656 Procss Media

Thermal Effects: Zero: Span: Gage Type Respone Time Enclosure: PX653, PX655 PX654, PX656 Pressure Port: PX653, PX655: PX654, PX656: Electrical Connection PX654, PX656 25 PSI 100 PSI Clean, dry clean non-corrosive gases

PX653 ±0.015% FS/°F PX654 ±0.02% PX655 ±0.015% FS/°F PX656 ±0.02% Capacitance 250 ms

NEMA 2 NEMA 4X

1/4 barbed fittings 1/4 NPTF Screw terminal Two 1/2 NPTF conduit

### PX655 & PX656 (CURRENT OUTPUT)

EXCITATION: OUTPUT: MAX. LOOP RES.: WEIGHT: PX655: PX656: 12-36Vdc 4-20mA (2 wire) (supply voltage -12) x 50 ohms

14 oz. (397 g) 2.1 lb. (955 g)

## **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.

# WARNING! READ BEFORE INSTALLATION

Fluid hammer and surges can destroy any pressure transducer and must always be avoided. A pressure snubber should be installed to eliminate the damaging hammer effects. Fluid hammer occurs when a liquid flow is suddenly stopped, as with quick closing solenoid valves. Surges occur when flow is suddenly begun, as when pump is turned on to full power or a valve is quickly opened.

Symptoms of fluid hammer and surge's damaging effects:

- 1. Pressure transducer exhibits an output at zero pressure (large zero offset). If zero offset is less than 10% FS, user can usually re-zero meter, install proper snubber and continue monitoring pressures.
- 2. Pressure transducer output remains constant regardless of pressure.
- 3. In severe cases, there will be no output.



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#### WARRANTY/DISCLAIMER

MEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship for a period of **13 months** from ate of purchase. OMEGA's WARRANTY adds an additional one (1) month grace period to the normal **one (1) year product** *rarranty* to cover handling and shipping time. This ensures that OMEGA's customers receive maximum coverage on each product.

the unit malfunctions, it must be returned to the factory for evaluation. OMEGA's Customer Service Department will issue an uthorized Return (AR) number immediately upon phone or written request. Upon examination by OMEGA, if the unit is found to be efective, it will be repaired or replaced at no charge. OMEGA's WARRANTY does not apply to defects resulting from any action of the urchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or nauthorized modification. This WARRANTY is VOID if the unit shows evidence of having been tampered with or shows evidence of ving been damaged as a result of excessive corrosion; or current, heat, moisture or vibration; improper specification; isapplication; misuse or other operating conditions outside of OMEGA's control. Components in which wear is not warranted, clude but are not limited to contact points, fuses, and triacs.

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ONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 1 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) e used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way. OMEGA assumes o responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and, additionally, purchaser will indemnify OMEGA nd hold OMEGA harmless from any liability or damage whatsoever arising out of the use of the Product(s) in such a manner.

#### RETURN REQUESTS/INQUIRIES

irect all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY RODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S CUSTOMER RVICE DEPARTMENT (IN ORDER TO AVOID PROCESSING DELAYS). The assigned AR number should then be marked on the itside of the return package and on any correspondence.

charges. Have the following information available BEFORE

he purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit FOR **NON-WARRANTY** REPAIRS, consult OMEGA for current repair

- OR WARRANTY RETURNS, please have the following
- formation available BEFORE contacting OMEGA: Purchase Order number under which the product was PURCHASED,
  - Model and serial number of the product under warranty, and
- Purchase Order number to cover the COST of the repair,
  Model and serial number of the product, and Repair instructions and/or specific problems relative to the product. 3. Repair instructions and/or specific problems relative to the

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