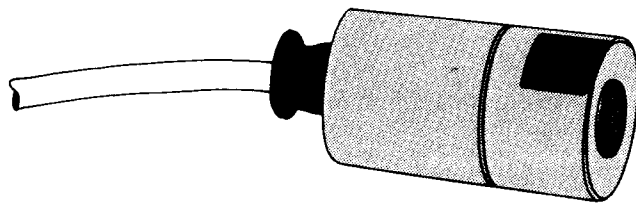


Ω PX906

Ω Pressure Transducer



Operator's Manual
M304/1192

DESCRIPTION

The OMEGA PX906 are millivolt output type pressure transducers with full bridge design for high sensitivity. These transducers are constructed of welded stainless steel and utilize top quality strain gage and electronic components.

WARNING !	READ BEFORE INSTALLATION
<p>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 a pump is turned on at full power or a valve is quickly opened.</p>	
<p>Liquid surges are particularly damaging to pressure transducers if the pipe is originally empty. To avoid damaging surges, fluid lines should remain full (if possible), pumps should be brought up to power slowly, and valves opened slowly. To avoid damage from both fluid hammer and surges, a surge chamber should be installed, and a pressure snubber should be installed on every transducer.</p>	
<p>Symptoms of fluid hammer and surge's damaging effects:</p>	
<ol style="list-style-type: none"> 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. 	

AVAILABLE MODELS

RANGE	MODEL	RANGE	MODEL
0-300 PSIG	PX906-300G V	0-2000 PSIG	PX906-2KG V
0-500 PSIG	PX906-500G V	0-3000 PSIG	PX906-3KG V
0-750 PSIG	PX906-750G V	0-5000 PSIG	PX906-5KG V
0-1000 PSIG	PX906-1KG V	0-7500 PSIG	PX906-7.5KG V
0-1500 PSIG	PX906-1.5KG V		

UNPACKING

Remove the Packing List and verify that all equipment has been received. If there are any questions about the shipment, please call the OMEGA Customer Service Department at 1-800-622-2378 or (203) 359-1660.

Upon receipt of shipment, inspect the container and equipment for any signs of damage. Take particular note of any evidence of rough handling in transit. Immediately report any damage to the shipping agent.

NOTE

The carrier will not honor any claims unless all shipping material is saved for their examination. After examining and removing contents, save packing material and carton in the event reshipment is necessary.

WIRING

RED + EXCITATION
BLACK - EXCITATION
GREEN - SIGNAL
WHITE + SIGNAL

SPECIFICATIONS

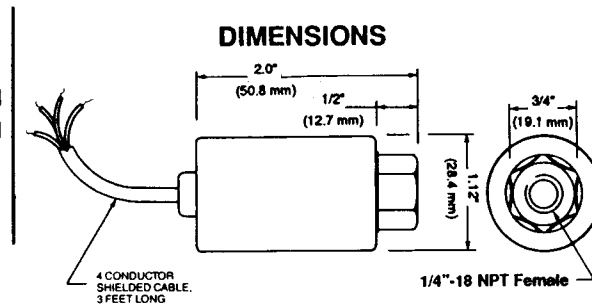
EXCITATION: 10VDC
OUTPUT: 20mV full scale
SENSITIVITY: 2mV/V
INPUT RESISTANCE: 350 ohms
OUTPUT RESISTANCE: 350 ohms
INSULATION RESISTANCE: >5M Ω @ 75VDC

PERFORMANCE

ACCURACY: $\pm 0.3\%$ (includes linearity, hysteresis, and repeatability)
ZERO BALANCE: $\pm 3\%$
OPERABLE TEMP. RANGE: -65° to 250° F (-53.9° to 121.1° C)
COMPENSATED TEMP. RANGE: 60° to 160° F (15.6° to 71.1° C)
THERMAL ZERO EFFECT: $\pm 0.01\%$ full scale/ $^{\circ}$ F
THERMAL SENSITIVITY EFFECT: $\pm 0.02\%$ full scale/ $^{\circ}$ F
PROOF PRESSURE: 1.5 x range
BURST PRESSURE: 3 x range; 1,500 max.

CONSTRUCTION

BODY MATERIAL: 17-4 PH Stainless Steel
DIAPHRAGM MATERIAL: 17-4 PH Stainless Steel
PRESSURE PORT: 1/4"-18 NPT female thread
ELECTRICAL CONNECTION: 4 conductor shielded cable, 36"
PRESSURE CAVITY VOLUME: 0.122 cubic inches
WEIGHT: 8 oz (226.8 g)
DIMENSIONS: see above



DIMENSIONS

**Servicing USA and Canada: Call OMEGA Toll Free
OMEGA Engineering, Inc.**

One Omega Drive, Box 4047
Stamford, CT 06907-0047 U.S.A.
Headquarters: (203) 359-1660

Sales: 1-800-826-6342 / 1-800-TC-OMEGA
Customer Service: 1-800-622-2378 / 1-800-622-BEST
Engineering: 1-800-872-9436 / 1-800-USA-WHEN
FAX: (203) 359-7700 TELEX: 996404 EASYLINK: 62968934 CABLE: OMEGA

**Servicing Europe: United Kingdom Sales and Distribution Center
OMEGA Technologies Ltd.**

P.O. Box 1, Broughton Astley, Leicestershire LE9 6XR, England
Telephone: (0455) 285520 FAX: (0455) 283912

WARRANTY

OMEGA warrants this unit to be free of defects in materials and workmanship and to give satisfactory service for a period of **13 months** from date of purchase. OMEGA Warranty adds an additional one (1) month grace period to the normal **one (1) year product warranty** to cover handling and shipping time. This ensures that our customers receive maximum coverage on each product. If the unit should malfunction, 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 which 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 only warrants 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, EXPRESSED 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 assumes liability for any damages that result from the use of the products in accordance with the information contained in the manual.

RETURN REQUESTS / INQUIRIES

Direct all warranty and repair requests/inquiries to the OMEGA ENGINEERING Customer Service Department. Call toll free in the USA 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. 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, and
3. Repair instructions and/or specific problems you are having with the product.

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

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