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Find the *OMEGA PX94-015G5V* at our website: *Click HERE*

OMEGA ENGINEERING, INC.
An OMEGA Group Company
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PX94 SERIES CORROSION RESISTANT PRESSURE TRANSDUCERS

GENERAL DESCRIPTION

The OMEGA® PX94 Series Sensors are media compatible, solid-state piezoresistive pressure sensors with a 1-6 Vdc output span. The 0-5 psi to 0-100 psi models are for use with corrosive or conductive fluid or gaseous media where high level voltage output must be integral to the package. The 0-300 psi to 0-5000 psi models are for use in harsh environments and high pressure applications where a high level voltage output is required.

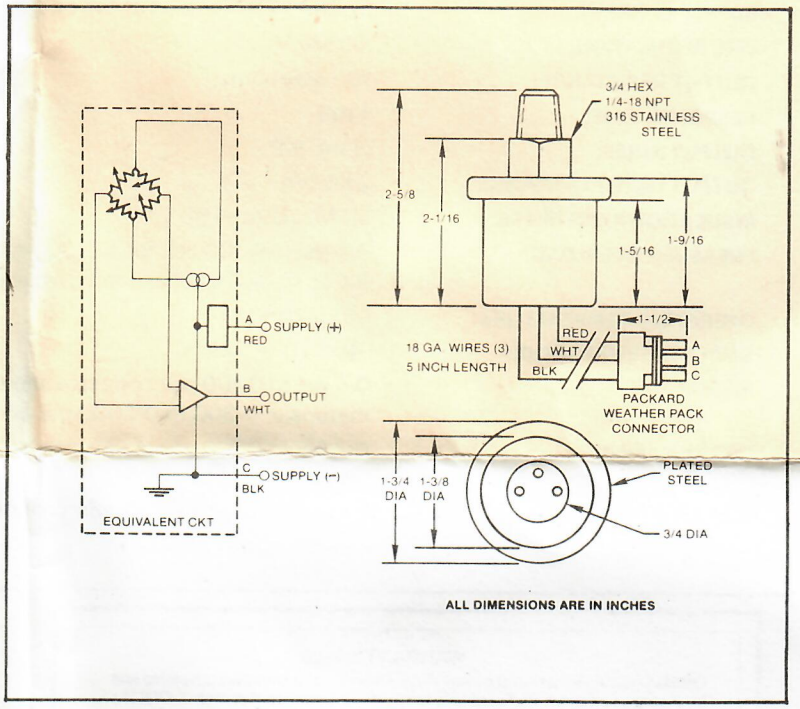
The 0-5 psi to 0-100 psi models have a silicon diaphragm; the 0-300 psi to 0-5000 psi models have stainless steel diaphragms. The 0-300 psi to 0-5000 psi models utilize an oil column to couple a diffused, piezoresistive sensor to a convoluted, flush 316 stainless steel diaphragm that can be interfaced with most harsh media.

The sensor assembly and associated solid-state electronics are enclosed in a cylindrical casing with a ¼ -18 NPT stainless steel pressure fitting.

Full calibration and temperature compensation is provided over 0° to 50°C, along with unit-to-unit interchangeability. A three-wire connector is included with color-coded, 18 gage wire.

The PX94 Series Sensors are available in either gage pressure ranges from 0-5 psi to 0-300 psi and in both sealed gage and absolute pressure ranges from 0-300 psi to 0-5000 psi. Each sensor is individually serialized.

CONNECTIONS/DIMENSIONS



FEATURES

- 1-6 Vdc Output
- Solid-State Reliability
- Iso-Pressure Structure 0-300 PSI and Above
- Fully Calibrated
- Temperature Compensated Over 0° to 50°C
- ±0.25% Accuracy 0-100 PSI and Below
- ±0.5% Accuracy 0-300 PSI and Above
- Internal Voltage Regulation
- Reverse Voltage Protection

TYPICAL APPLICATIONS

- Hydraulic Controls
- Pneumatics Controls
- Robotics
- Water Management
- Air Conditioning
- Refrigeration
- Process Control
- Machine Tools
- Environmental Control
- Agricultural Sprayers
- Compressors

PX94 SERIES SPECIFICATIONS

Supply Voltage = 10 Vdc & Ambient Temperature = 25°C (Unless otherwise specified)

FULL SCALE OUTPUT SPAN:	4.95 V minimum; 5.00 V typical; 5.05 V maximum
FULL SCALE OUTPUT:	1 to 6 Vdc
ZERO PRESSURE OUTPUT:	.95 minimum; 1.00 typical; 1.05 maximum (vacuum for absolute and one standard atmosphere for sealed gage)
STATIC ACCURACY (INCLUDES REPEATABILITY, PRESSURE HYSTERESIS AND LINEARITY):	±0.25% span, 0-5 psi to 0-100 psi models; ±0.5% span, 0-300 psi to 0-5000 psi models
SPAN TEMPERATURE EFFECT (0° - 50°C in reference to 25°C):	±1.0% of span
ZERO TEMPERATURE EFFECT (0° - 50°C in reference to 25°C):	±1.0% of span
SUPPLY VOLTAGE:	8 V minimum; 10 V typical; 30 V maximum
SUPPLY CURRENT:	2.5 mA (with no load at the output)
LINE REGULATION:	.005%/V
OUTPUT RESISTANCE:	100 Megohms
RESPONSE TIME:	1 mS
OUTPUT NOISE:	.5 mV P-P
OUTPUT LOAD RESISTANCE:	2 kilohm
INSULATION RESISTANCE:	50 Megohm at 50 volts
PRESSURE OVERLOAD:	0-5 psi to 0-100 psi: 3X or 500 psi maximum, whichever is less; 0-100 psi to 0-5000 psi: 3X or 10,000 psi maximum, whichever is less
OPERATING TEMPERATURE:	0° to 70°C
STORAGE TEMPERATURE:	-40° TO + 125°C
MEDIA:	0-5 psi to 0-100 psi: corrosive and conductive liquids and gases compatible with wetted materials; 0-300 to 0-5000 psi: compatible with 316 stainless steel
WETTED PARTS:	0-5 psi to 0-100 psi: stainless steel, gold, silicon and glass; 0-300 psi to 0-5000 psi 316 stainless steel
WEIGHT:	6 oz. with connector (mating connector supplied with each unit)

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 current, heat, moisture, vibration, or misuse. Components which wear or which are damaged by misuse are not warranted. These include contact points, fuses, and triacs.

THERE ARE NO WARRANTIES EXCEPT AS STATED HEREIN. THERE ARE NO OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE IMPLIED WARRANTIES OF MERCHANTABILITY AND OF FITNESS FOR A PARTICULAR PURPOSE. IN NO EVENT SHALL OMEGA ENGINEERING, INC. BE LIABLE FOR CONSEQUENTIAL, INCIDENTAL OR SPECIAL DAMAGES. THE BUYER'S SOLE REMEDY FOR ANY BREACH OF THIS AGREEMENT BY OMEGA ENGINEERING, INC. OR ANY BREACH OF ANY WARRANTY BY OMEGA ENGINEERING, INC. SHALL NOT EXCEED THE PURCHASE PRICE PAID BY THE PURCHASER TO OMEGA ENGINEERING, INC. FOR THE UNIT OR UNITS OR EQUIPMENT DIRECTLY AFFECTED BY SUCH BREACH.

Return Requests/Inquiries

Direct all warranty and repair requests/inquiries to OMEGA Customer Service Department, telephone number (203) 359-1660. Before returning any instrument, please contact the OMEGA Customer Service Department to obtain an authorized return (AR) number. The designated AR number should then be marked on the outside of the return package.

To avoid processing delays, also please be sure to include:

1. Returnee's name, address, and phone number.
2. Model and Serial numbers.
3. Repair instructions.

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Artisan Technology Group is an independent supplier of quality pre-owned equipment

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We buy equipment

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