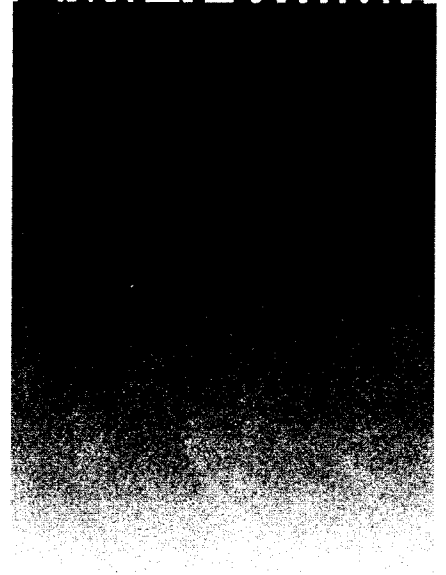
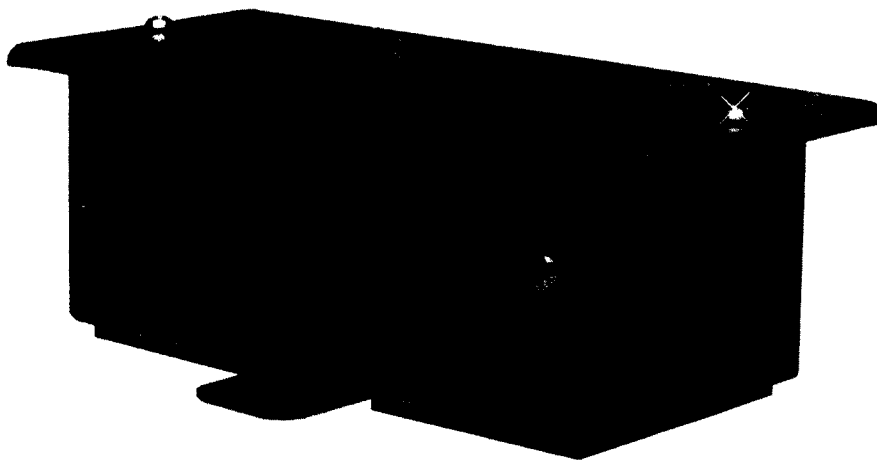


User's Guide



An OMEGA Technologies Company

*<http://www.omega.com>
e-mail: info@omega.com*



PX264 and PX265 Series Triple Range Pressure Transducer with NEMA-4 Enclosure



OMEGAnetSM On-Line Service
<http://www.omega.com>

Internet e-mail
info@omega.com

Servicing North America:

USA:
ISO 9001 Certified

One Omega Drive, Box 4047
Stamford, CT 06907-0047
Tel: (203) 359-1660
e-mail: info@omega.com

FAX: (203) 359-7700

Canada:

976 Bergar
Laval (Quebec) H7L 5A1
Tel: (514) 856-6928
e-mail: canada@omega.com

FAX: (514) 856-6886

For immediate technical or application assistance:

USA and Canada: Sales Service: 1-800-826-6342 / 1-800-TC-OMEGASM
Customer Service: 1-800-622-2378 / 1-800-622-BESTSM
Engineering Service: 1-800-872-9436 / 1-800-USA-WHENSM
TELEX: 996404 EASYLINK: 62968934 CABLE: OMEGA

**Mexico and
Latin America:**

Tel: (95) 800-TC-OMEGASM
En Español: (203) 359-7803

FAX: (95) 203-359-7807
e-mail: espanol@omega.com

Servicing Europe:

Benelux:

Postbus 8034, 1180 LA Amstelveen, The Netherlands
Tel: (31) 20 6418405
Toll Free in Benelux: 06 0993344
e-mail: nl@omega.com

FAX: (31) 20 6434643

Czech Republic:

ul. Rude armady, 1868. 733 01 Karvina-Hranice, Czech Republic
Tel: 420 (69) 6311627
e-mail: czech@omega.com

FAX: 420 (69) 6311114

France:

9, rue Denis Papin, 78190 Trappes
Tel: (33) 130-621-400
Toll Free in France: 0800-4-06342
e-mail: france@omega.com

FAX: (33) 130-699-120

Germany/Austria:

Daimlerstrasse 26, D-75392 Deckenpfronn, Germany
Tel: 49 (07056) 3017
Toll Free in Germany: 0130 11 21 66
e-mail: germany@omega.com

FAX: 49 (07056) 8540

United Kingdom:
ISO 9002 Certified

25 Swannington Road,
Broughton Astley, Leicestershire,
LE9 6TU, England
Tel: 44 (1455) 285520
FAX: 44 (1455) 283912

P.O. Box 7, Omega Drive,
Irlam, Manchester,
M44 5EX, England
Tel: 44 (161) 777-6611
FAX: 44 (161) 777-6622

Toll Free in England: 0800-488-488

e-mail: uk@omega.com

It is the policy of OMEGA to comply with all worldwide safety and EMC/EMI regulations that apply. OMEGA is constantly pursuing certification of its products to the European New Approach Directives. OMEGA will add the CE mark to every appropriate device upon certification.

The information contained in this document is believed to be correct but OMEGA Engineering, Inc. accepts no liability for any errors it contains, and reserves the right to alter specifications without notice.

WARNING: These products are not designed for use in, and should not be used for, patient connected applications.

Before Installation

1. Verify that the correct transmitter was shipped.
2. Do not reverse polarity. Follow the wiring instructions and check wiring before applying power.
3. Install the transmitter in a location that does not have excessive vibration, EMI and RF.

Installation

Mounting

1. Position the transducer vertically on a flat mounting surface.
2. In order to eliminate any air gaps, the unit should be mounted below the level of the pipe being sensed.
3. Pipe over to the unit with 1/4" copper tubing.
4. Shut-off cock valves should be installed before the port to ease in the removal and maintenance of the transducer.
5. Mark the mounting holes.
6. Drill mounting holes for screws.
7. Mount transducer with screws.
8. Do not warp the transducer by over tightening the mounting screws.

Transducer Configuration

1. Select the transducer range and output configuration by changing the shorting plugs to match the enclosed diagram.

Power Connections

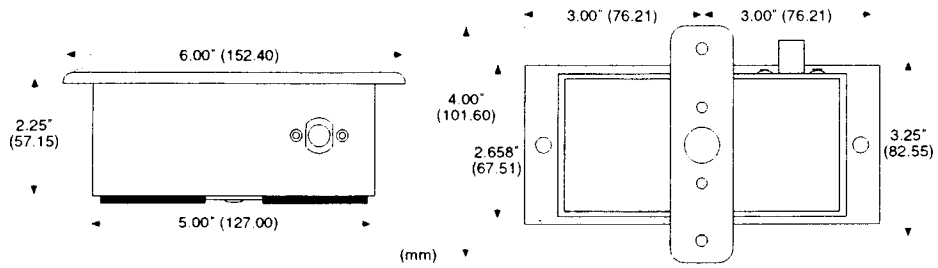
1. Follow the wiring instructions and check wiring before applying power.
2. Select transducer configuration before applying power.
3. Do not reverse polarity.

Calibration Instructions

All units are factory calibrated to meet or exceed published OMEGA specifications. If field adjustment is needed, please perform the following steps.

1. Connect terminals (1) and (2) to appropriate power source.
2. For output options 1-3 connect the plus lead of an accurate voltmeter to terminal #3 and for Output option 4, connect ampmeter plus lead to terminal #3. Connect common to terminal #4.
3. Apply low pressure to the unit and carefully adjust the zero trimmer (T1) to obtain desired low output.
4. Apply high pressure to the unit and adjust the span trimmer (T2) to obtain the desired high output.
5. Repeat steps 3 and 4 until further correction is needed.

Dimensions

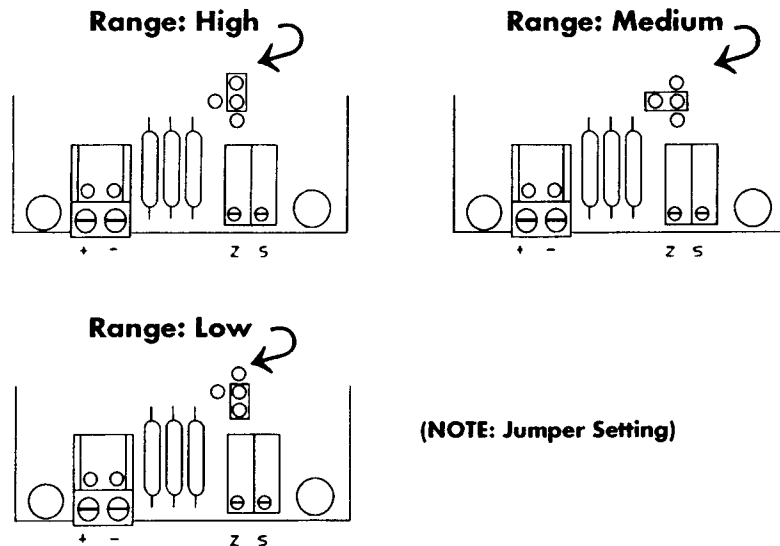


PX264 Range Configuration (PSIG)

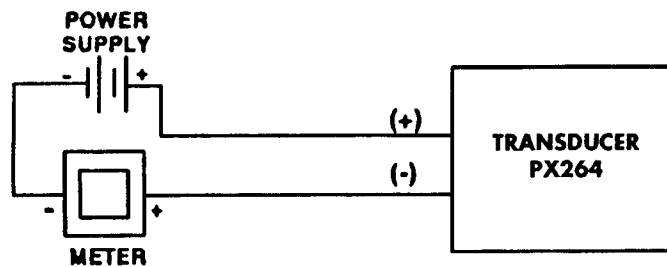
	Low Range	Medium Range	High Range
PX264-100GI	0-25	0-50	0-100
PX264-300GI	0-75	0-150	0-300
PX264-500GI	0-125	0-250	0-500

Range Configuration

(NOTE: Jumper Setting)



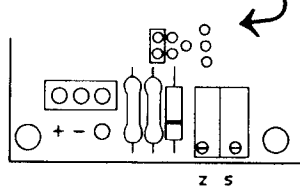
Wiring



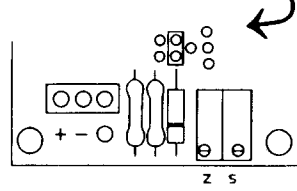
PX265 Output Configuration

(NOTE: Jumper Setting)

Range: 0 to 5 VDC



Range: 0 to 10 VDC



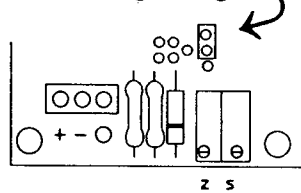
PX265 Range Configuration (PSIG)

	Low Range	Medium Range	High Range
PX265-100G5V	0-25	0-50	0-100
PX265-300G5V	0-75	0-150	0-300
PX265-500G5V	0-125	0-250	0-500

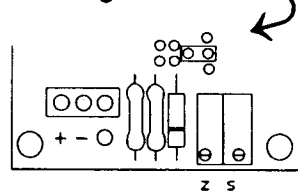
Range 1 Configuration

(NOTE: Jumper Setting)

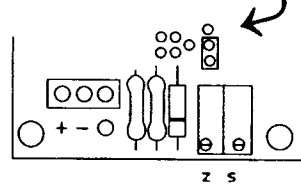
Range: High



Range: Medium

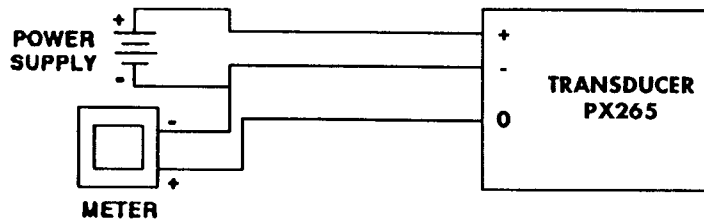


Range: Low



(NOTE: Jumper Setting)

Wiring



General Description

The OMEGA PX264 and PX265 series pressure transducers offer three field selectable ranges in one unit. The PX264 will have a 4-20 mA output. The PX265 will have a user selectable output of 0-5 or 0-10 Vdc. The units feature a 316L stainless steel pressure cavity which is machined from a solid rod eliminating any welds, seams or bonds. The rugged NEMA-4 (IP-65) enclosure is dust proof, splash proof and is provided with an external mounting bracket.

Specifications

PX264

Excitation:	12 to 40 Vdc
Output:	4-20 mA (2 wire)
Supply Current:	20 mA max
Load Impedance:	3K ohms max at 40 Vdc

PX265

Excitation:	12 to 35 Vdc
Output:	0-5 or 0-10 Vdc user selectable
Supply Current:	10 mA max
Load Impedance:	1K ohm minimum
Accuracy:	+/-1.0% FS (linearity, repeatability, and hysteresis)
Operating Temperature:	0 to 180° F (-18 to 82° C)
Compensated Temperature:	0 to 180° F (-18 to 82° C)
Thermal Effects:	+/- 0.025% FS/F (0.03% FS/C)
Proof Pressure:	300% FS
Burst Pressure:	500% FS
Wetted Parts:	316L Stainless Steel
Pressure Port:	1/8-27 NPT Female
Termination:	Screw Terminals, wire size 12 GA max
Enclosure:	Enamel coated, 18 GA steel, NEMA-4 (IP-65) rated
Weight:	1.0 lb. (454 grams)



WARRANTY/DISCLAIMER

OMEGA ENGINEERING, INC. warrants this unit to be free of defects in materials and workmanship 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 OMEGA's customers receive maximum coverage on each product.

If the unit should malfunction, it must be returned to the factory for evaluation. OMEGA's 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. OMEGA's WARRANTY does not apply to defects resulting from any action of the purchaser, including but not limited to mishandling, improper interfacing, operation outside of design limits, improper repair, or unauthorized modification. 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 are not warranted, including but not limited to contact points, fuses, and triacs.

OMEGA is pleased to offer suggestions on the use of its various products. However, OMEGA neither assumes responsibility for any omissions or errors nor assumes liability for any damages that result from the use of its products in accordance with information provided by OMEGA, either verbal or written. 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, 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 purchaser 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.

CONDITIONS: Equipment sold by OMEGA is not intended to be used, nor shall it be used: (1) as a "Basic Component" under 10 CFR 21 (NRC), used in or with any nuclear installation or activity; or (2) in medical applications or used on humans. Should any Product(s) be used in or with any nuclear installation or activity, medical application, used on humans, or misused in any way, OMEGA assumes no responsibility as set forth in our basic WARRANTY/DISCLAIMER language, and additionally, purchaser will indemnify OMEGA and 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

Direct all warranty and repair requests/inquiries to the OMEGA Customer Service Department. BEFORE RETURNING ANY PRODUCT(S) TO OMEGA, PURCHASER MUST OBTAIN AN AUTHORIZED RETURN (AR) NUMBER FROM OMEGA'S 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.

The purchaser is responsible for shipping charges, freight, insurance and proper packaging to prevent breakage in transit.

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 relative to the product.

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

1. P.O. number to cover the COST of the repair,
2. Model and serial number of product, and
3. Repair instructions and/or specific problems relative to the product.

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.

OMEGA is a registered trademark of OMEGA ENGINEERING, INC.

© Copyright 1996 OMEGA ENGINEERING, INC. All rights reserved. This document may not be copied, photocopied, reproduced, translated, or reduced to any electronic medium or machine-readable form, in whole or in part, without prior written consent of OMEGA ENGINEERING, INC.

Where Do I Find Everything I Need for Process Measurement and Control? OMEGA...Of Course!

TEMPERATURE

- Thermocouple, RTD & Thermistor Probes, Connectors, Panels & Assemblies
- Wire: Thermocouple, RTD & Thermistor
- Calibrators & Ice Point References
- Recorders, Controllers & Process Monitors
- Infrared Pyrometers

PRESSURE, STRAIN AND FORCE

- Transducers & Strain Gauges
- Load Cells & Pressure Gauges
- Displacement Transducers
- Instrumentation & Accessories

FLOW/LEVEL

- Rotameters, Gas Mass Flowmeters & Flow Computers
- Air Velocity Indicators
- Turbine/Paddlewheel Systems
- Totalizers & Batch Controllers

pH/CONDUCTIVITY

- pH Electrodes, Testers & Accessories
- Benchtop/Laboratory Meters
- Controllers, Calibrators, Simulators & Pumps
- Industrial pH & Conductivity Equipment

DATA ACQUISITION

- Data Acquisition & Engineering Software
- Communications-Based Acquisition Systems
- Plug-in Cards for Apple, IBM & Compatibles
- Datalogging Systems
- Recorders, Printers & Plotters

HEATERS

- Heating Cable
- Cartridge & Strip Heaters
- Immersion & Band Heaters
- Flexible Heaters
- Laboratory Heaters

ENVIRONMENTAL MONITORING AND CONTROL

- Metering & Control Instrumentation
- Refractometers
- Pumps & Tubing
- Air, Soil & Water Monitors
- Industrial Water & Wastewater Treatment
- pH, Conductivity & Dissolved Oxygen Instruments