

0-5 to 0-1000 psid
Piston Sensor for Liquids

Features

- Heavy duty — to 10,000 psi line pressure
- Weatherproof design and rugged construction
- Gauge, switch and transmitter versions
- Popular in filtration and flow measurements



Our piston sensor models are for liquid applications where durability and long life are required. Their simple design has fewer parts to wear out and also keeps the price low.

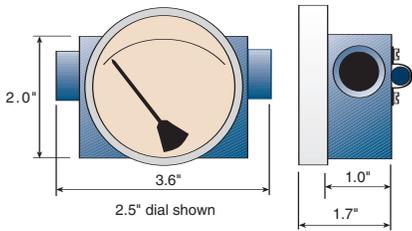
A magnet attached to the dial pointer shaft follows a spring-loaded sensor magnet that moves as differential pressure changes. In this way the DP displacement of the

sensor is translated to our easy-to-read 2.5 to 6-inch diameter dials.

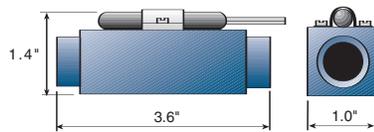
Select from a variety of options such as follower pointers, red arcs and mounting brackets along with switch, relay or transmitter outputs. See page 5 for a complete list of standard options.

Dimensions

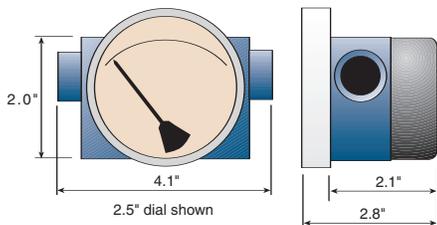
Detailed drawings on website.



1201PGS



1201PS



1203PGS

Specifications (Detailed Specification Sheets on Website)

| Model | Differential pressure range | Maximum line pressure/temperature | Accuracy (F.S.) (Ascending) | Porting (Many porting types available) | Electrical Available** |
|----------------------|---|---------------------------------------|-----------------------------|--|---|
| 1201PG/PGS/PS | 0-5 to 0-150 psid (0-0.33 to 0-10 bar) | 3000 psig (200 bar) 200°F (93°C) | 2% | 1/4" NPT | 1 switch no enclosure |
| 1203PG/PGS/PS/PGT/PT | 0-5 to 0-150 psid (0-0.33 to 0-10 bar) | 5000 psig (340 bar) 200°F (93°C) | 2% | 1/4" NPT | 1 or 2 switches 1 relay transmitter Class 1 Div. 2/NEMA 4X For Class 1 Div. 1, see pg. 26 |
| 1206PG* | 0-5 to 0-150 psid (0-0.33 to 0-10 bar) | 10,000 psig (680 bar) 200°F (93°C) | 2% | 1/4" NPT | 1 or 2 switches, 1 relay NEMA 4X |
| 1306PG* | 0-100 to 0-1000 psid (0-7 to 0-67 bar) | 7500 psig (482 bar) 200°F (93°C) | 2% | 1/4" NPT | 1 or 2 switches, 1 relay NEMA 4X |

P=Piston G=Gauge S=Switch T=Transmitter

*PS and PGS transmitter versions available

**NEMA 4X switch models have a 1/2 inch NPT conduit port as standard. A DIN 43650A-PG11 with mating connector is optional, rated IP65 & NEMA 4X

How to Order

Select from each of the applicable categories to construct a model number. Use the model number when ordering or obtaining additional information and pricing from Orange Research or your local distributor.

Reordering? You must supply the Part Number from your instrument label.

Sample Model Number
1201PGS - 1A - 2.5B - A 0-5 psid, 1, 3, E

| 1201PGS | 1A | 2.5B | A | 0-5 psid | 1, 3, E |
|--|---|--|---|---|---|
| Model | Pressure Body | Dial Case | Electrical | Range | Options (more on pg. 5) |
| 1201PG 1201PGS 1201PS 1203PG 1203PS 1203PGS 1206PG 1306PG <i>More models above</i> | <i>In-line ports:</i> 1A = aluminum 1C = 316 stainless steel 1E = brass <i>Change "1" above to "4" for back ports; to "5" for bottom ports</i> <i>Back/bottom ports N/A on 1203 or 1300 series; Brass N/A on 1300 series</i> | 2.5B = 2.5" basic 3.5B = 3.5" basic 4.5B = 4.5" basic 6B = 6.0" basic <i>Change "B" to "F" above for flanged dial case</i> | A = SPST, N.O. B = SPST, N.C. C = SPDT A-A = 2 ea. - A B-B = 2 ea. - B C-C = 2 ea. - C R2 = relay T2 = transmitter | 0-5, 0-8, 0-10, 0-15, 0-20, 0-25, 0-30, 0-35, 0-40, 0-50, 0-60, 0-80, 0-100, 0-125, 0-150 psid <i>1300 series ranges to 1000 psid</i> | 1 = 1/2" NPT 2 = plastic lens 3 = liquid filled (glycerine) 4 = follower pointer 5 = Teflon coated magnet/spring 6 = red arc (specify range) 7 = dual scale (specify both) 8 = high temperature Special Seals (Buna-N standard): E = EPDM V = Viton F = Fluorosilicone T = Teflon |