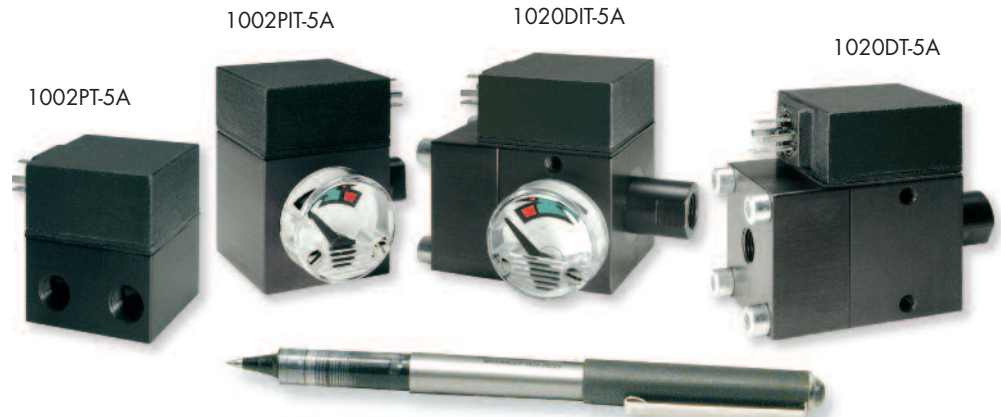


LOW COST MINI TRANSMITTERS

Applications

- **Filtration**
- **DP Flow**
- **Level**
- **Heat Exchangers**



Features

OEM Design

These new miniature transmitters for differential pressure measurement are designed primarily for OEM liquid or gas applications where remote monitoring is necessary. We've packed 20 years of proven sensing technology into the smallest package available. In doing so, we were able to cut the price in half!

Heavy Duty to 3000 psi

Our rugged high-pressure design handles up to 3000 psi line pressures. This is achieved by using heavy-duty pressure bodies machined from solid blocks of aluminum. The bodies are then anodized to allow for long-term use in difficult environments.

Two Outputs

Loop-powered, 2-wire versions have a 4-20 mA output while 3-wire versions have a 0-5 VDC output. All models require 9-28 VDC input.

Liquids or Gases

Our 1002 piston sensor models handle differential pressure ranges from 0-4 to 0-75 psid and are designed for liquids with line pressures up to 3000 psi. The 1020 diaphragm sensor versions handle ranges from 0-25" H₂O to 0-10 psid for liquids or gases up to 1000 psi line pressures. All units are calibrated to NIST standards and no adjustments are required in the field.

Installation Ready

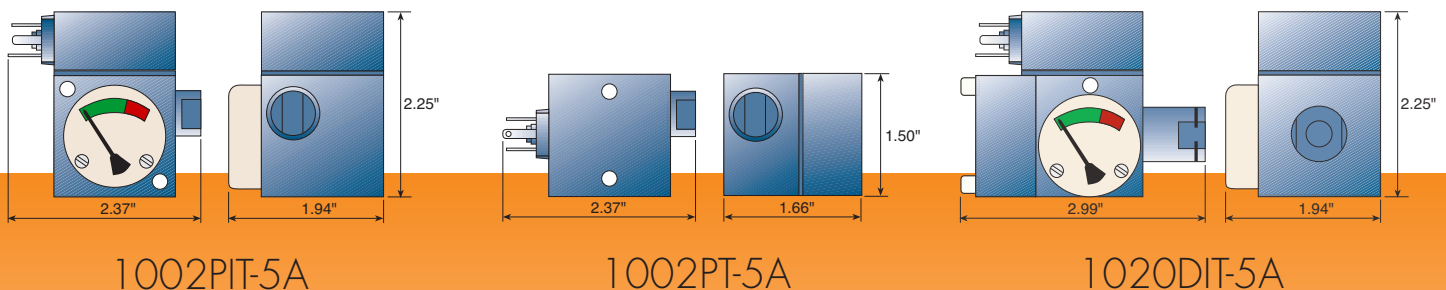
A 1" dial is available for local indication. Standard ports are 1/8" female NPT located on the sides, back, or bottom of the units. Manifold mounting ports also are available. The electronics are protected by a weatherproof enclosure that has an integral DIN 43650 Form "C" connector (8 mm).

Applications

Filtration, DP flow, level, and heat exchangers.

Dimensions

Detailed drawings on website.



Specifications (Detailed Specification Sheets on Website)

Model	Differential pressure range	Maximum line pressure/ temperature	Accuracy (F.S.) (Ascending)	Repeatability (F.S.) (Ascending)	Porting (Many porting options available)	Output*
1002PIT/PT	0-4 to 0-75 psid (0-0.28 to 0-5 bar)	3000 psig (200 bar) 176°F (80°C)	10%	5%	1/8" NPT	4-20 mA or 0-5 V
1020DIT/DT	0-25" H ₂ O to 0-10 psid (0-0.06 to 0-0.7 bar)	1000 psig (67 bar) 176°F (80°C)	10%	5%	1/8" NPT	4-20 mA or 0-5 V

P=Piston D=Diaphragm I=Indicator T=Transmitter

*A DIN 43650 Form "C" (8 mm) is standard (mating connector supplied on request)

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 Indicator Transmitter Model Number
1002PIT - 3A - 1M - T3 0-10 psid, V

1002PIT	3A	1M	T3	0-10 psid	V
Model	Pressure Body	Dial Case	Transmitter	Range (psid)	Options
1002PT	3A = manifold back ports	(optional)	Output	0-25" H ₂ O; 0-1, 0-2, 0-3,	Model 1002:
1002PIT	4A = 1/8" NPT back ports	1M = 1" molded lens	T3 = current	0-4, 0-5, 0-8, 0-10, 0-15,	Special Seals
1020DT	5A = 1/8" NPT bottom ports		T4 = voltage	0-20, 0-25, 0-30, 0-35,	(Buna-N standard):
1020DIT	Note: A = Aluminum			0-40, 0-50, 0-60, 0-75 psid	V = Viton
					Model 1020:
					Special Diaphragm & Seals
					(Buna-N standard):
					E = EPDM
					F = Fluorosilicone
					V = Viton