

Digitally Controlled Gauge Pressure Transducer

Three Switch-Selectable Ranges With A Test Mode

APPLICATIONS

- Chilled and hot water pump monitoring
- HVAC and industrial gas monitoring
- Instrument air pressure
- Hydraulic oil pressure

FEATURES

Exceptional accuracy and stability

- Micromachined silicon sensor design...improves overpressure capacity and prevents failures
- Electronic surge damping for high stability
- Pushbutton zero calibration...no trim pots to adjust, saves installation time

Lowest total installed cost

- Switch-selectable pressure ranges...fewer models to order and stock
- Pushbutton and remote zero adjustment...maintain accuracy and prevent callbacks with automatic zero calibration

Microprocessor controlled signal conditioning

- Noise rejection reduces fluctuating readings due to noise or turbulence
- Surge damping prevents false alarms by averaging fast peaks
- Output clamping protects controller input from overcurrent/overvoltage
- Test mode overrides the output to full scale...helps to diagnose wiring problems



PH



DESCRIPTION

The PH Series pressure transducers are designed for steam, air, gas, and liquid pressure measurement in all media compatible with 17-4 PH stainless steel. They utilize a microprocessor controlled sensor profiled for exceptional accuracy and reliability. All models feature three switch-selectable ranges and a "test mode" to verify wiring and panel input scaling. A pushbutton and digital input terminal is used to automatically zero the output, and the microprocessor safeguards against accidental zero adjustment during operation. The field-selectable output, offering options of 0-5V, 0-10VDC, or 4-20mA, ensures excellent systems compatibility. Jumper controlled surge damping is provided on all models to prevent false alarms.

SPECIFICATIONS

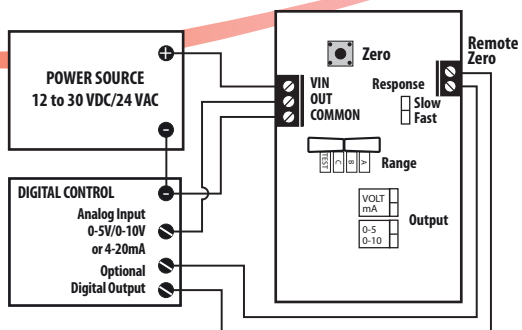
<i>Product:</i>	
Input Power	12 to 30VDC/24VAC
Output	3-wire transmitter; user selectable 4-20mA, (clipped and capped)/0-5V/0-10V*
Accuracy	±1% F.S. Combined linearity, hysteresis, and repeatability
Surge Damping	Electronic; 5-second averaging
Test Mode	Overrides output to full-scale (20mA, 5V, 10V)

<i>Pressure Ranges:</i>	
0-100 psi	25/50/100psig switch selectable
0-250 psi	62.5/125/250psig switch selectable
0-500 psi	125/250/500psig switch selectable
0-1000 psi	250/500/1000psig switch selectable
Product Operating Environment	-10° to 55°C (-4° to 130°F); 0 to 90%RH, non-condensing
Long Term Stability	±0.25% per year
Zero Adjust	Pushbutton auto-zero and digital input (2-pos terminal block)
Status Indication	Dual-color LED: Green = Normal, Red = Overpressure, Flashing Red = Fault
Housing Material	White powder-coated steel

<i>Sensor:</i>	
Media Compatibility	media compatible with 17-4 PH stainless steel
Proof Pressure	Max. 2x F.S. range
Burst Pressure	Max. 5x F.S. range
Temperature Compensated Range	0° to 50°C (32° to 122°F)
Media Temperature Limits	-20° to 85°C (-4° to 185°F); 0 to 90% RH non-condensing
Fittings	1/4" NPT male thread, 17-4 PH stainless

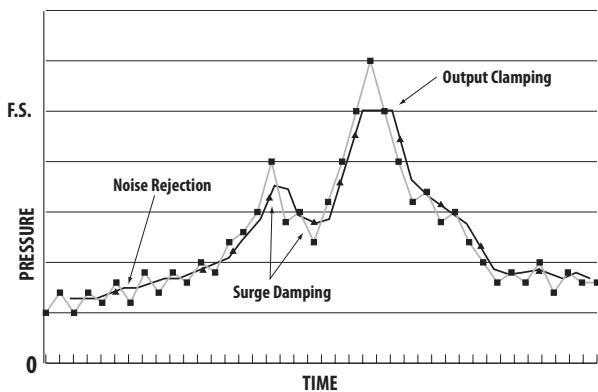
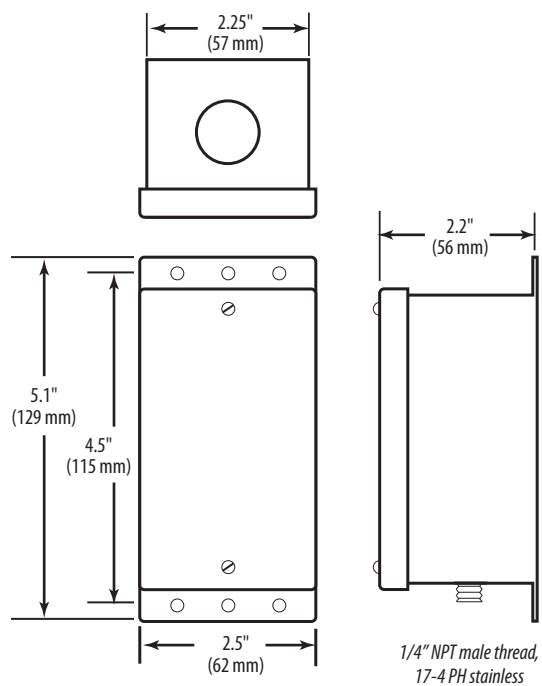
*Minimum input voltage for 4-20mA operation:
250 ohm loop (1-5V) = 12 VDC
500 ohm loop (2-10V) = 15 VDC

APPLICATION/WIRING DIAGRAM



MODEL	RANGE		
	A	B	C
07	25	50	100
08	62.5	125	250
09	125	250	500
10	250	500	1000

DIMENSIONAL DRAWING



Actual Pressure
 Digitally Conditioned Output

ORDERING INFORMATION

PH **NIST** **Range** **S**
 N = NIST 07 = 0-100 psig = Standard
 X = None 08 = 0-250 psig
 09 = 0-500 psig
 10 = 0-1000 psig

Example:
 PH X 07 S

ACCESSORIES

Snubbers (AA11), steam siphon (AA13)