PH Series

Digitally Controlled Gauge Pressure Transducer

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 highly accurate, stable sensor which is microprocessor 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 are used to automatically zero the output. A microprocessor algorithm prevents accidental zero adjustment during normal operation.

The field-selectable 0-5V/0–10VDC, or 4-20mA output feature provides excellent systems compatibility.

Jumper controlled surge damping is provided on all models to prevent false alarms.

ORDERING INFORMATION

	(NIST)	*(Range)*	*(US or EU)*
PH	☐	☐	S
	N = NIST	**07** = 0-100 psig	**S** = Standard
	X = None	**08** = 0-250 psig	
		09 = 0-500 psig	
		10 = 0-1000 psig	

Example:

PH [X] [07] [S]

ACCESSORIES

Snubbers, steam siphon. . . See page 234

Applications

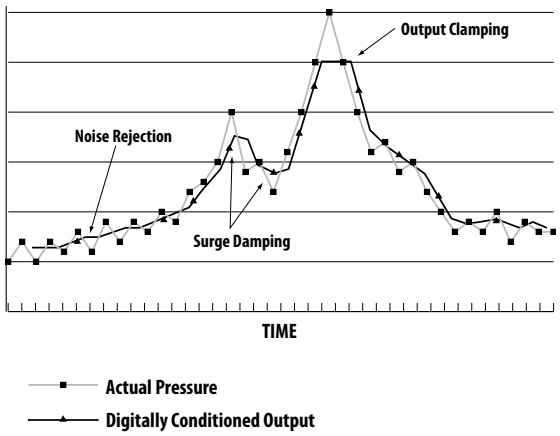
- Chilled and hot water pump monitoring
- HVAC and industrial gas monitoring
- Instrument air pressure
- Hydraulic oil pressure

Exceptional accuracy and stability

- Micromachined silicon sensor design. . .improves overpressure capacity
- Electronic surge damping for high stability
- Pushbutton zero calibration. . .no trim pots to adjust

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

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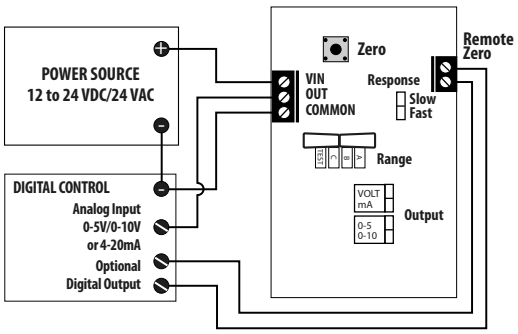
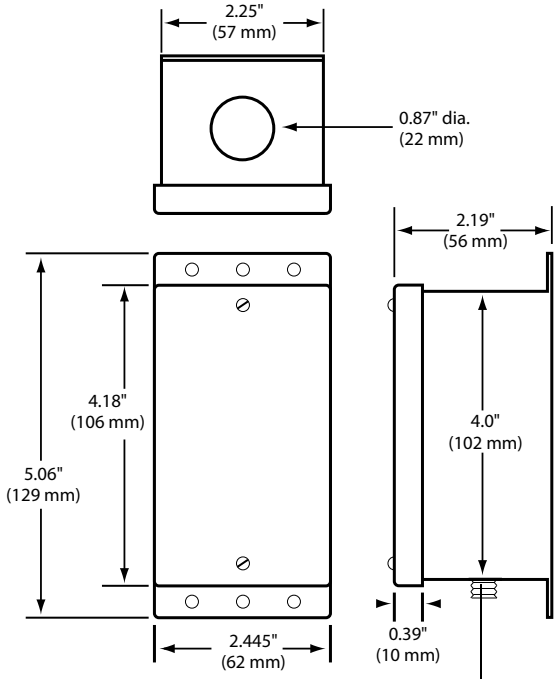
WIRING DIAGRAM



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

DIMENSIONAL DRAWINGS



1/4" NPT male thread, 17-4 PH stainless

SPECIFICATIONS

Product:

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)
Pressure Ranges:	
0-100 psi	25/50/100psig
0-250 psi	62.5/125/250psig
0-500 psi	125/250/500psig
0-1000 psi	250/500/1000psig
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

Sensor:

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)
Sensor Operating Environment	-20° to 85°C (-4° to 185°F); 0 to 90% RH non-condensing*
Fittings	1/4" NPT male thread, 17-4 PH stainless

*Extended operation of sensor at temperature extremes may affect product operating temperature range

†Minimum input voltage for 4-20mA operation:

250 ohm loop (1-5V) = 12 VDC

500 ohm loop (2-10V) = 15 VDC

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