

## PHX07S

Three Switch-Selectable Ranges with Test Mode



PHX07S

The PHX07S pressure transducer is designed for steam, air, gas, and liquid pressure measurement in all media compatible with 17-4PH N8 stainless steel. It utilizes a microprocessor-controlled sensor profiled for exceptional accuracy and reliability. The device features 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 guards against accidental zero adjustment during operation. The field-selectable output, offering options of 0 to 5 V, 0 to 10 Vdc, or 4 to 20 mA, ensures excellent systems compatibility. Jumper controlled surge damping is provided on all models to reduce false alarms.

## SPECIFICATIONS

### GENERAL

Input Power	Class 2; 12 to 30 Vdc/24 Vac
Output	3-wire transmitter; user selectable 4 to 20 mA (clipped & capped)/0-5 V/0-10 V*
Surge Damping	Electronic; 5-second averaging
Test Mode	Overrides output to full-scale (20 mA, 5 V, 10 V)
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

### PRESSURE RANGES

0 to 100 psi	25/50/100 psig switch selectable
0 to 250 psi	62.5/125/250 psig switch selectable
0 to 500 psi	125/250/500 psig switch selectable

### OTHER SPECS

Product Operating Environment	-10 to 55 °C (-4 to 130 °F); 0 to 90% RH non-condensing
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### Reduces failures

Micromachined silicon sensor design...improves overpressure capacity and reduces failures

### Switch-selectable

Switch-selectable pressure ranges...fewer models to order and stock

### High stability

Electronic surge damping for high stability

### Pushbutton

Pushbutton and remote zero adjustment...maintain accuracy and prevent callbacks with automatic zero calibration

### Zero calibration

Pushbutton zero calibration...no trim pots to adjust, saves installation time

### Microprocessor

Microprocessor controlled signal conditioning (see graph)

### APPLICATIONS

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

### SENSOR

Accuracy	±1% F.S. Combined linearity, hysteresis, and repeatability
Long Term Stability	±0.25% per year
Media Compatibility	Media compatible with 17-4 PH stainless steel
Proof Pressure	Max. 2x F.S. range
Burst Pressure	Max. 5x F.S. range
Temp 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

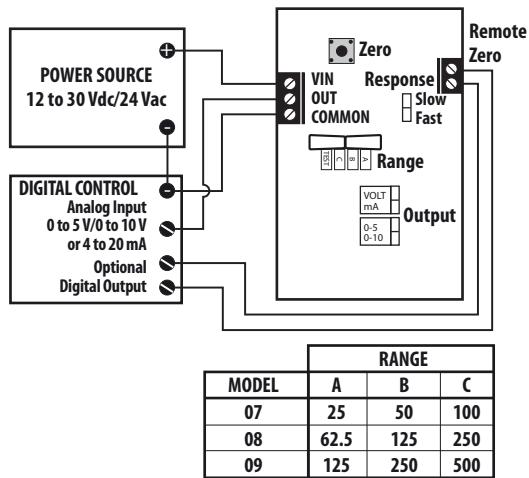
### WARRANTY

Limited Warranty	5 years
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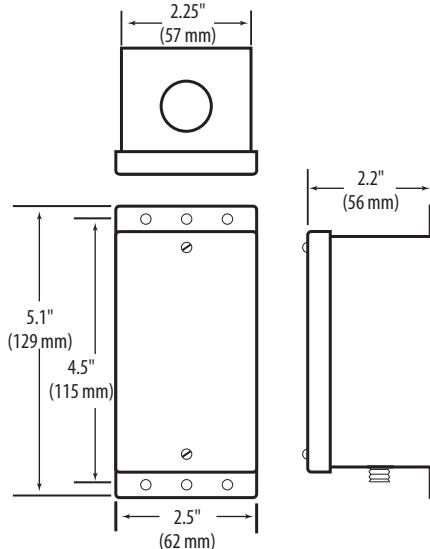
\*Minimum input voltage for 4 to 20 mA operation:  
250 Ω loop (1 to 5 V) = 12 Vdc  
500 Ω loop (2 to 10 V) = 15 Vdc



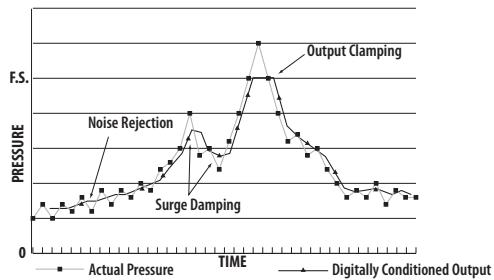
## WIRING DIAGRAM



## DIMENSIONAL DRAWING



## SIGNAL CONDITIONING DIAGRAM



## ORDERING INFORMATION

MODEL	DESCRIPTION
PHX07S	Pressure, Wet, Panel, 0-100PSIG