



# MINIATURE HIGH PERFORMANCE PRESSURE SENSOR

## 4-20mA - ASUH SERIES - UP TO 500 PSI

The ASUH Series of high performance sub-miniature pressure transducers have been designed for demanding installations where space is extremely limited and high vibration and temperature are anticipated.

This new design utilizes miniaturized hybrid components which allow savings in size and weight. The transducer has an enhanced performance at elevated temperature and is optimized for extreme installations such as on-engine or transmissions.

The modular construction and programmable amplifier provide a fast delivery time for standard and custom configurations. Pressure ranges are available between 150 to 6000 psi. For OEM applications we have many options available to customize these transducers.

### TECHNICAL SPECIFICATIONS

<b>Pressure Reference</b>	Absolute, Gauge and Sealed gauge
<b>Standard Pressure Ranges (psi)</b>	15, 30, 75, 100, 150, 300, 500 <i>For ranges above 500 psi see ASUH High Range datasheet</i>
<b>Proof Pressure (overload)</b>	200% of range
<b>Burst Pressure</b>	>500% of range
<b>Accuracy</b>	±0.08% FS Combined Linearity & Hysteresis (CNLH)
<b>Thermal Effects</b>	±0.25%FS TEB within Compensated Range
<b>Output</b>	4-20mA (±0.5%)
<b>Power Supply</b>	9-40Vdc
<b>Operating Temperature Range</b>	-40°F to 300°F (-40°C to +150°C)
<b>Compensated Temperature Range</b>	Standard temperature ranges-See Configurator on back page <i>Any range can be selected over the operating temperature. But for non-standard ranges please consult the factory.</i>
<b>Bandwidth</b>	1000Hz standard <i>Other frequencies available - please consult the factory.</i>
<b>Construction</b>	Stainless steel
<b>Electrical Connection</b>	20in 26AWG, 55spec wire + DR25 sleeve or Hermetic Connector - 8STA1-Y02-05PN170
<b>Process Connection</b>	3/8-24UNF (-3), 5/16-24UNF (-2), M6 x 1, M8 x 1 and M10 x 1
<b>Protection Class</b>	IP67 (Cable Option) Hermetic Seal (Connector Option)
<b>EMC Protection</b>	EN 50082-1
<b>Vibration</b>	Mil-Std-810C, curve L, 20G
<b>Weight</b>	0.95oz - Including cable 0.7oz - Connector option
<b>Options</b>	Cable length, connector fitted, thread size and labelling

PMC adopts a continuous development program which sometimes necessitates specification changes without notice.

## Process Measure Control

### Features

- Lightweight
- 0-15 to 0-500 psi
- ±0.08% Accuracy
- 4-20mA
- -40 to +300°F

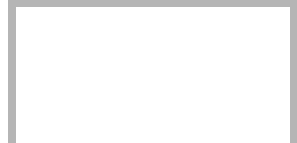
### Applications

- Compressors
- Generators
- Hydraulics
- Fluid
- Test
- Air

### Contact

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Represented by:



# Part Number Configurator

**ASUH** - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ] - [ ]

**Pressure Reference**  
 Absolute Gauge — A  
 Sealed Gauge — S

**Pressure Range**  
 15 psi — P15  
 30 psi — P30  
 50 psi — P50  
 75 psi — P75  
 100 psi — P100  
 150 psi — P150  
 300 psi — P300  
 500 psi — P500

**Supply Voltage**  
 9-40Vdc (4-20mA Output) — 6

**Accuracy (CNLH)**  
 ±0.08% FS Combined Linearity & Hysteresis — A

**Accuracy (Thermal Shift)**  
 ±0.025%FS TEB within Compensated Range — 1

**Compensated Temperature Range**  
 32 to 255° (0 to 125°C) — 1  
 32 to 300°F (0 to 150°C) — 2  
 -15 to 230° (-25 to 100°C) — 3  
 -40 to 255°F (-40°C to 125°C) — 4  
 -40 to 300°F (-40°C to 150°C) — 5

**Electrical Connection**  
 26AWG, 55Spec Wire +DR25 Sleeve — A  
 26AWG, 55Spec Wire +Viton Sleeve — B  
 Hermetic connector. 8STA1-Y02-05PN170 — 5PN

**Process Connection**  
 3/8 Inch 24 UNF Dash 3 (SAE J514) — A  
 M10 x 1 Male (ISO 6149-2) — D  
 M8 x 1 Male (ISO 6149-2) — F  
 5/16 Inch 24 UNF - No Cone (SAE J514) — I  
 5/16 Inch 24 UNF Dash 2 (SAE J514) — K  
 M5 x 0.8 Male — P

**Bandwidth**  
 0-1000Hz — 1

**Cable Length**  
 20 inches — A20  
 None - Hermetic Connector Option — 000

**Special Code**  
 None — 000

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# Process Measure Control

## Sensors for

- Temperature
- Acceleration
- Pressure
- Position
- Torque
- Speed
- Angle
- Force

## Services for

- Data Logging
- Telemetry
- Controls
- Wiring

## PMC Sensors is

- Engineering led
- Confidential
- Experienced
- Responsive
- Dynamic
- Friendly

# MECHANICAL DETAILS

Dimensions in inches

26AWG 55SPEC Cable DR25 Sleeve: 0.67" NOM, 1.38", 0.28", Ø0.49", 0.51" A/F HEX, Ø0.55" corners, Ø0.06" Wire Lock Holes (3PLCS)

Souriau Connector Type 8STA1Y-02-05PN170 Hermetic: 0.55", 1.46", 0.28", Ø0.39", Ø0.49", 0.51" A/F HEX, Ø0.55" corners, Ø0.06" Wire Lock Holes (3PLCS)

Thread options: -2, 5/16-24UNF (M8x 1.00-6G ISO6149-2), -3, 3/8-24UNF (M10x 1.00-6g ISO6149-2), 5/16-24UNF (P)

# ELECTRICAL DETAILS

Cable Option		
+Ve Supply	0V Supply	Factory use only
Red	Black	White

Hermetic Connector Option			
+Ve Supply	GND	Factory use only	Not Connected
Pin 1	Pin 2	Pin 3	Pin 4 & 5

# Precision Pressure, Temperature and Level Measurement for Industry