AST47HP High Pressure



Stainless Steel Pressure Sensor / Transducer / Transmitter

Overview

Manufactured to withstand pressures up to 60,000 PSI, the AST47HP high pressure sensor is the best solution for high pressure and high cycle systems such as hydraulic pressure or diesel common rail pressure.

Benefits

- One Piece Stainless Steel Construction
- Krystal Bond™ Technology is Free of Welds, Silicon Oil, & Internal **O-Rings**
- 100V/m EMI/RFI Protection
- Various Automotive / military Connectors Available for Ease of Installation
 - Mini-DIN 43650 C
 - Bendix (PT02-10-6P)
 - Standard Cable lengths of 2, 4, 6,

Applications

- Water Jets
- Water Tanks
- Test Stands
- Pipeline Instrumentation
- High Pressure Wells
- Hydraulics Systems
- Injection Molding Equipment
- Pumps

s & Custom Cable Lengths			
High Pressure Wells	Environmental Data		

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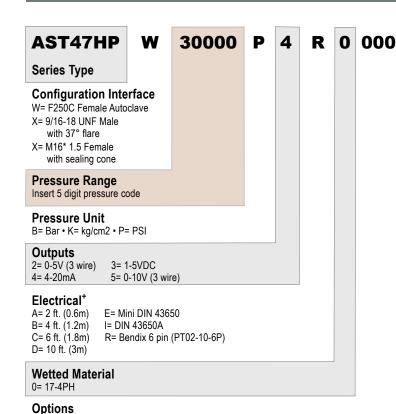
Environmental Data		
Temperature		
Operating	-40 to 85°C (-40 to 185°F)	
Storage	-40 to 125°C (-40 to 250°F)	
Thermal Limits		
Compensated Range	0 to 55°C (30 to 130°F)	
TC Zero	<±1.5% of FS	
TC Span	<±1.5% of FS	
Other		
Shock	100G, 11 msec, 1/2 sine	
Vibration	20G peak, 20 to 2400 Hz.	
EMI/RFI Protection:	Yes	
Rating:	IP-68	

Performance	∍ @ 25°C (77°F)	
Accuracy*	< ± 0.5% BFSL (<±1.0% BFSL for Voltage)	
Stability (1 year)	±0.5% FS, typical	
Pressure Cycles	> 100 Million	
* Accuracy includes non-linearity, hysteresis & non-repeatability * All orders over 10K PSI must consult factory		

Electrical Data				
Output	4-20mA	Voltage (3 or 4 Wire)	0-50mV (10mV/V)	
Excitation	10-28VDC	10-28VDC	5VDC	
Output Impedance	>10k Ohms	<100 Ohms, Nominal	1100 Ohms, Nominal	
Current Consumption:	20mA, typical	<10mA	<5mA	
Bandwidth	(-3dB): DC to 250 Hz	(-3dB): DC to 1kHz	(-3dB): DC to 5kHz, min	
Output Noise:	-	<2mV RMS	-	
Zero Offset:	<±1% of FS	<±1% of FS	<±2% of FS	
Span Tolerance:	<±2% of FS	<±1.5% of FS	<±2% of FS	
Output Load:	0-800 Ohms@10-28VDC	10k Ohms, min	>1M Ohms	
Reverse Polarity Protection	Yes	Yes	-	



Ordering Information



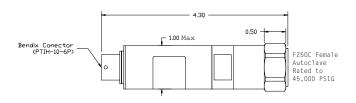
High Pressure Fittings Include:

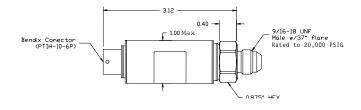
9/16-18 UNF Male with 37° Flare	10,000-20,000 PSI	(700-1400 BAR)
F250C Female Autoclave	10,000-45,000 PSI	(700-3,000 BAR)
M16*1.5 Female with Sealing Cone	10,000-60,000 PSI	(700-4000 BAR)

000= No special options

123= M16*1.5 Female with sealing cone 153= 9/16-18 UNF Male with 37° flare

Dimensional Data





Warranty

Workmanship - AST, Inc. pressure transmitters have a limited one-year warranty to the original purchaser. AST, Inc. will replace or repair, free of charge, any defective transmitter. This warranty does not apply to any units that have been modified; misused, neglected or installed where the application exceeds published ratings. AST's sensors are made with pride in New Jersey, USA. If in the area please feel free to stop by for a visit!

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter.

^{*}Wiring information available at: http://www.astsensors.com/wiring.php