

AST20HA

Precision Pressure Transducer / Transmitter



Overview

The AST20HA is a digitally compensated pressure transducer / pressure transmitter that offers high performance over temperature. Krystal Bond™ Technology alone offers excellent non-linearity and non-repeatability performance. When it is combined with the most advanced electronics, the AST20HA steps into its own league of high performance pressure sensing at an affordable price.

Benefits

- Asic Compensation
- ABS (American Bureau of Shipping) Approved
- Temperature Performance
- Real Time Thermal Compensation
- Real Time Linearity Correction
- Turndown Capability

Applications

- Aerospace
- Analytical Instruments
- Hydraulics
- Hydrogen (Consult factory for media compatibility)
- Labs / Metrology
- Medical
- Military
- Test Stands

Performance @ 25°C (77°F)				
Accuracy	< ± 0.1% BFSL*			
Stability (1 year)	± 0.1% FS, typical			
Proof Pressure	2X Rated Pressure, standard**			
Burst Pressure	5X or 50,000 PSI, whichever is less			
Pressure Cycles	> 100 Million			
*Accuracy includes non-linearity, hysteresis & non-repeatability **For higher proof pressures, contact factory				



Environmental Data					
Temperature					
Operating	-40 to 85°C (-40 to 185°F)				
Storage	-50 to 125°C (-58 to 250°F)				
Thermal Limits					
Compensated Range	0-70°C (30 to 158°F)				
TC Zero	< ± 0.5% FS				
TC Span	< ± 0.5% FS				
Other					
Shock	100G, 10msec, 1/2 sine				
Vibration	10G peak, 20 to 2000Hz				
EMI/RFI Protection:	Yes				
Rating:	IP-66				

Electrical Data					
Output	4-20mA	0-5V, 1-5V, 1-6V	0-10V, 1-10V	0.5-4.5V Ratiometric	
Excitation	10-28VDC	10-28VDC	15-30VDC	5VDC, Regulated	
Current Consumption:	-	< 10mA	< 10mA	< 10mA	
Sampling Rate	400Hz	400Hz	400Hz	400Hz	
Output Noise:	< 1mV, RMS	< 1mV, RMS	< 1mV, RMS	< 1mV, RMS	
Zero Offset	< ± 0.5% FS	< ± 0.5% FS	< ± 0.5% FS	< ± 0.5% FS	
Span Tolerance	< ± 0.5% FS	< ± 0.5% FS	< ± 0.5% FS	< ± 0.5% FS	
Output Load:	0-800 Ohms@10-28- VDC	5k Ohms, min.	5k Ohms, min.	5k Ohms, min.	
Reverse Polarity Protection	Yes	Yes	Yes	Yes	

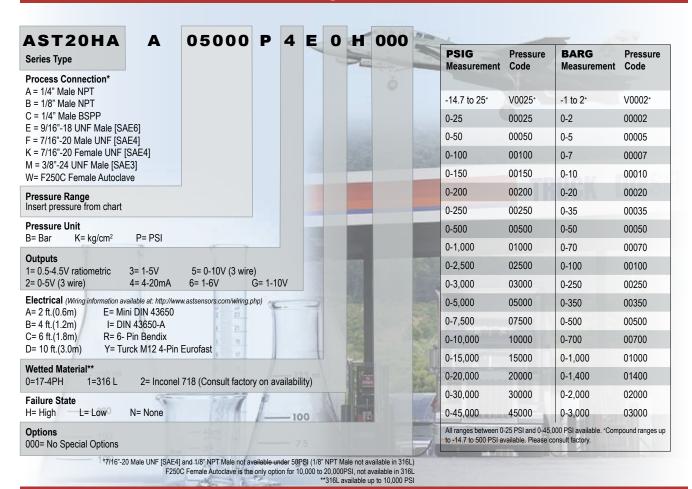


AST20HA

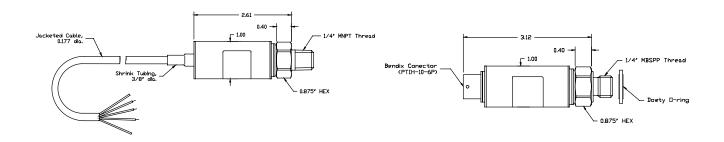
Precision Pressure Transducer / Transmitter







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.

PM Instrumentation | 59 rue Emile Deschanel | F-92400 Courbevoie | France +33(0)1 46 91 93 32 | contact@pm-instrumentation.com | www.pm-instrumentation.com