



PRECISION

Pressure Transducer / Transmitter AST20HA

Overview

The AST20HA is a digitally compensated precision 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 advanced electronics, the AST20HA steps into its own league of high performance pressure sensing at an affordable price.

Benefits

- Digital ASIC Compensation
- Superb Temperature Performance
- Real Time Thermal Compensation
- Real Time Linearity Correction
- Turndown Capability
- Pressures up to 45,000 PSI
- ABS (American Bureau of Shipping) Approved

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 (< ±0.2% BFSL over 15,000 PSI)

(Accuracy includes non-linearity, hysteresis & non-repeatability)

Stability (1 year) ±0.1% FS, typical

Proof Pressure 2X Rated Pressure, Standard

(For higher proof pressures, contact factory)

Burst Pressure 5X or 50,000 PSI (whichever is less)

Pressure Cycles > 100 Million

Environmental Data

Temperature

Operating -40 to 85°C (-40 to 185°F)

Storage -50 to 125°C (-58 to 257°F)

0-100% relative humidity, non-condensing

Thermal Limits

Compensated Range 0-70°C (30 to 158°F)

TC Zero $< \pm 0.5\%$ of FS TC Span $< \pm 0.5\%$ of FS

Other

Shock 100G, 11 msec, 1/2 sine **Vibration** 10G peak, 20 to 2000Hz

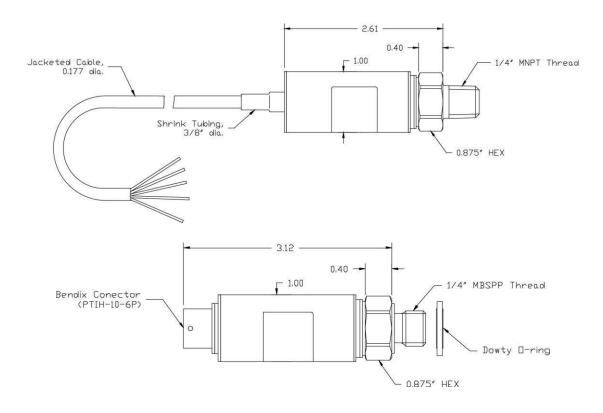
EMI/RFI Protection: Yes

Rating: IP-66, min

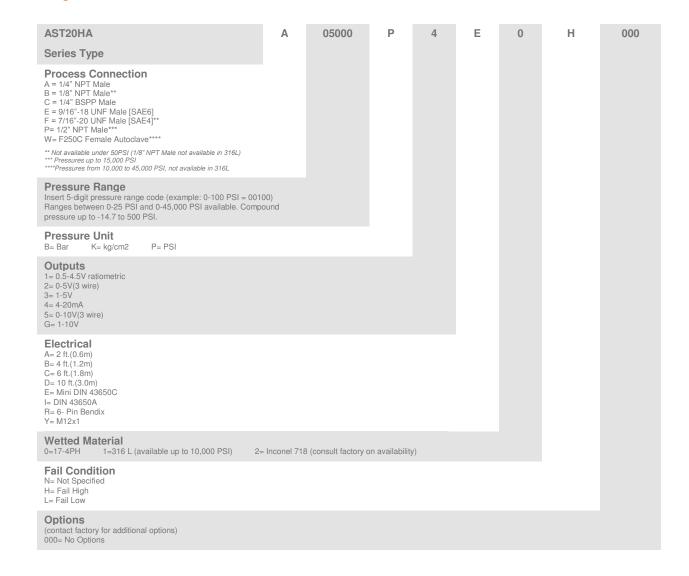
Electrical Data

Output	4-20mA+	0-5V, 1-5V	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	400 Hz	400 Hz	400 Hz	400 Hz
Output Noise	< 1mV, RMS	< 1mV, RMS	< 1mV, RMS	< 1mV, RMS
Zero Offset:	< ±0.5% of FS	$< \pm 0.5\%$ of FS	$< \pm 0.5\%$ of FS	< ±0.5% of FS
Span Tolerance:	< ±0.5% of FS	$< \pm 0.5\%$ of FS	$< \pm 0.5\%$ of FS	< ±0.5% of FS
Output Load:	0-800 Ohms@10-28VDC	5k Ohms, Min.	5k Ohms, Min.	5K Ohms, Min.
Reverse Polarity Protection	Yes	Yes	Yes	Yes

Dimensions



Ordering Information



联系方式



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