Stainless Steel Media Isolated Pressure Sensor



The AST47PT is the sensor solution for monitoring pressure and temperature with one device. With twin, 4-20mA loop-powered output signals, the AST47PT provides accurate pressure and temperature outputs for measurements ofliquids and gases. Packaged with all stainless steel wetted materials and featuring AST's Krystal Bond The Technology, this pressure-temperature sensor is constructed to perform in harsh environments and high cycle applications. The AST47PT is available with pressure ranges up to 500 PSI and a temperature measurement range of -40° to 85° C.

Benefits

- High Accuracy
- High Strength Stainless Steel Construction
- Pressure Ranges up to 500 PSI
- Wide Range of Configurations
- Suitable for High Shock and Vibration

Applications

- ✓ Test Stands & Lab Equipment
- Data Loggers
- Pressure Instrumentation
- Water Management
- Process Control

Performance @ 25°C (77°F)				
Accuracy*				
Pressure	< ± 0.25% BFSL			
Temperature	± 0.25°C, typical			
Stability (1 year)	±0.25% FS, typical			
Over Range Protection	2X Rated Pressure			
Burst Pressure	5X Rated Pressure			
Pressure Cycles	>100 Million			
*Accuracy includes non-linearity, hysteresis & non-repeatability				



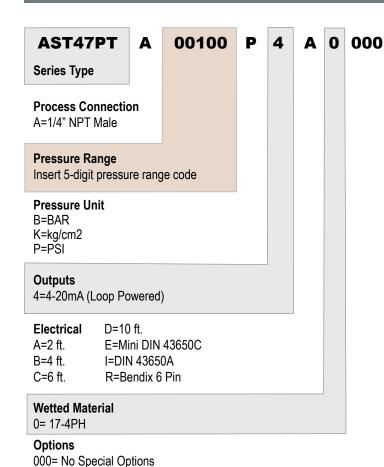


Environmental Data				
Temperature				
Operating	-40 to 85°C (-40 to 185°F)			
Storage	-40 to 125°C (-40 to 250°F)			
Thermal Limits (Pressure	e)			
Compensated Range	0 to 55°C (30 to 130°F)			
TC Zero	<±1.5% of FS			
TC Span	<±1.5% of FS			
Other				
Shock	100G, 11 msec, 1/2 sine			
Vibration	20G peak, 20 to 2400 Hz.			
EMI/RFI Protection:	Yes			
Rating:	IP-66			

Electrical Data					
Output	Pressure 4-20mA	Temp 4-20mA			
Excitation	10-28VDC	10-28VDC			
Output Impedance	-	-			
Current Consumption:	20mA max	20mA max			
Bandwidth	(-3dB): DC to 250 Hz	-			
Output Noise:	-	-			
Zero Offset:	<±1% of FS	<±1% of FS			
Span Tolerance:	<±2% of FS	<±2% of FS			
Output Load:	0-800 Ohms @10-28VDC	0-800 Ohms @10-28VDC			
Reverse Polarity Protection	Yes	Yes			



Ordering Information

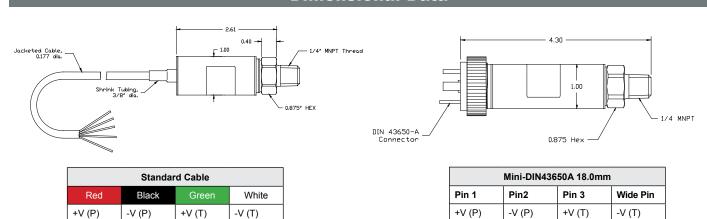


Pressure Ranges*

PSI Measurment Range	Pressure Range Code	BARG Measurement Range	Pressure Range Code
-14.7 to 25**	V0025**	-1 to 2**	V0002**
0-15	00015	0-1	00001
0-25	00025	0-2	00002
0-50	00050	0-5	00005
0-100	00100	0-7	00007
0-200	00200	0-10	00010
0-500	00500	0-20	00020
*Typical ranges. All ranges between		0-35	00035

⁰⁻²⁵ PSI and 0-500 PSI available. **Compound ranges up to -14.7 to 500 PSI available. Please consult factory.

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.