AST47SM Steel / Aluminum Mill



Stainless Steel Pressure Transmitter

Overview

The AST47SM steel mill package is able to perform in rugged environments as well as meet the high demands of the steel and aluminum industry. The pressure port design is compatible with the high pressure spikes when the slab is entering and exiting the rolling mill.

Benefits

- No Silicone Oil, Welds, or Internal O-rings
- High Proof and Burst Pressure Ratings
- Special Internal Restrictor Maintains High Frequency Response
- Internal Protection Against Pressure Spikes
- 1/4" BSPP Male Process Connection Available

(contact factory for other options)

Sealed Against Water Ingress

Applications

- Roll Forming
- Stamping
- Coolant Systems
- Rolling Mill
- Pumps

Performance @ 25°C (77°F)		
Accuracy*	< ± 0.1% BFSL	
Stability (1 year)	±0.25% FS, typical	
Over range Protection	5X Rated Pressure	
Burst Pressure	10X or 20,000 PSI whichever is less	
Pressure Cycles	>100 Million	
¹ Accuracy includes: Non-linearity, Hysteresis and Non-repeatability * All orders over 10K PSI must consult factory		

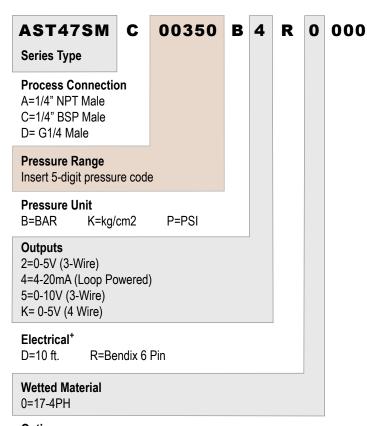


Environmental Data			
Temperature			
Operating	-40 to 85°C (-40 to 185°F)		
Storage	-50 to 125°C (-58 to 250°F)		
Thermal Limits			
Compensated Range	0 to 70°C (30 to 158°F)		
TC Zero	<±0.5% of FS		
TC Span	<±0.5% of FS		
Other			
Shock	EN 60068-2-27		
Vibration	EN 60068-2-6, 60068-2-64, and IEC 68-2-32		
EMI/RFI Protection:	Yes-100 V/m		
Rating:	IP-69		

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



Ordering Information



Pressure Ranges*

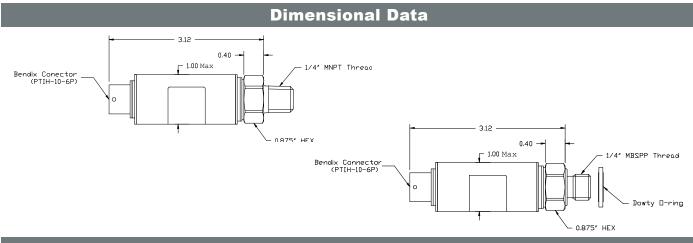
PSI Measurment	Pressure Code
0-1,000	01000
0-2,500	02500
0-5,000	05000
0-7,500	07500
0-10,000	10000
BARG Measurement	Pressure Code
0-100	00100
0-210	00210
0-350	00350
0-500	00500
0-700	00700

^{*} For other ranges, please consult factory.

Options

000= No Special Options

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



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.