

AST47SM

Steel | Aluminum Mill Pressure Transmitter



The **AST47SM** steel mill package is able to perform in the rugged environment and 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.

1 One Piece Sensing Element

- No Silicone Oil, Welds, or internal O-rings
- High Proof and Burst Pressure Ratings
- Design features include stress reduced diaphragm that for years will survive high pressure spikes
- Special internal restrictor maintains high frequency response ~1kHz
- Internal Protection Against Pressure Spikes
- 1/4" BSPP Male Process Connection Available (contact factory for other options)

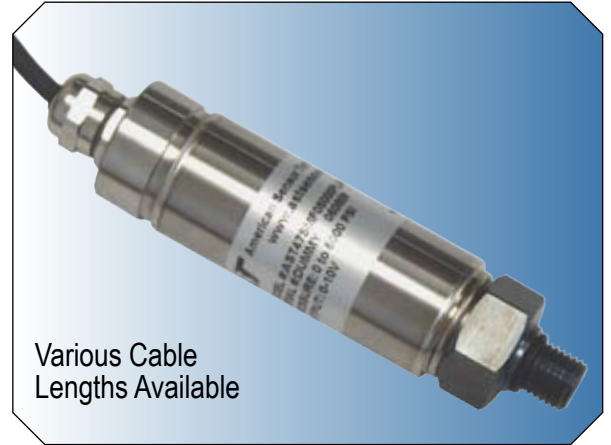
2 Rugged Construction

- Stainless steel housing welded to the sensing element
- Cable connection withstands system wash down

3 Outstanding Performance

- Accuracy: $< \pm 0.25\%$ BFS of FS
- Optional $< \pm 0.1\%$ BFS of FS with calibration data
- 100V/m of EMI/RFI Protection

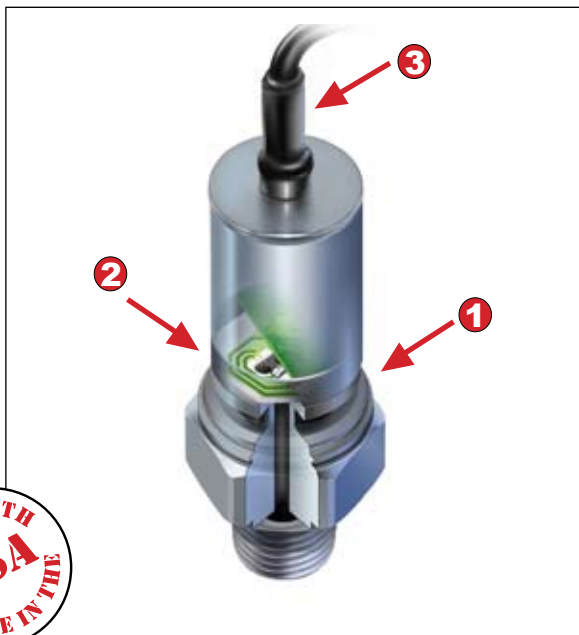
The AST47SM is packaged as a direct replacement for the Schaevitz P981-0107 with competitive pricing.



Various Cable Lengths Available

PRESSURE SENSING APPLICATIONS INCLUDE:

- ▶ **ROLL FORMING**
- ▶ **STAMPING**
- ▶ **ROLLING MILL**
- ▶ **PUMPS**
- ▶ **COOLANT SYSTEMS**



Bendix Connector

Performance @ 25°C (77°F)

Accuracy ¹	< ± 0.25% BFSL (± 0.1% Optional)
Stability (1 year)	±0.25%FS, typ
Over Range Protection*	5X Rated Pressure
Burst Pressure*	10X or 20,000PSI 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)
Media	-55 to 125°C (-65 to 250°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, 11msec, 1/2 sine
Vibration	20G peak, 20 to 2400 Hz.
EMI/RFI Protection:	Yes-100 V/m
Rating:	IP-69

Physical Description

Wetted Material	17-4PH stainless steel NACE compatible (for other materials, consult factory)
Electrical Connection	Cable, DIN, or Bendix 6 pin (PT02-10-6P)
Case (housing)	304 stainless steel (for other materials, consult factory)

MACRO SENSORS offers position sensors for steel mill applications with the following key features:

- ▶ High Output
- ▶ High Reliability
- ▶ Infinite Resolution
- ▶ Protection Against Overload
- ▶ No Wear for Infinite Mechanical Life
- ▶ Operates under High Shock and Vibration

The hermetically sealed HLR -750 series is terminated with a 1/2" NPT conduit fitting for easy installation and protection in steel mill environments. Visit macrosensors.com for complete product information, hook-up instructions, applications, tutorials and manuals for our electronics!

AST47SM C 00350 B 4 R 0 000

Series Type

Process Connection

A= 1/4" NPT Male
C= 1/4" BSPP Male

Pressure Range Code

Insert 5 - digit line pressure range code.

Pressure Unit

B=BAR,
K=kg/cm²,
P=PSI

Outputs

2=0-5V (3 - Wire)
4=4-20mA
5=0-10V (3 Wire)) (10-28VDC Supply)

Electrical

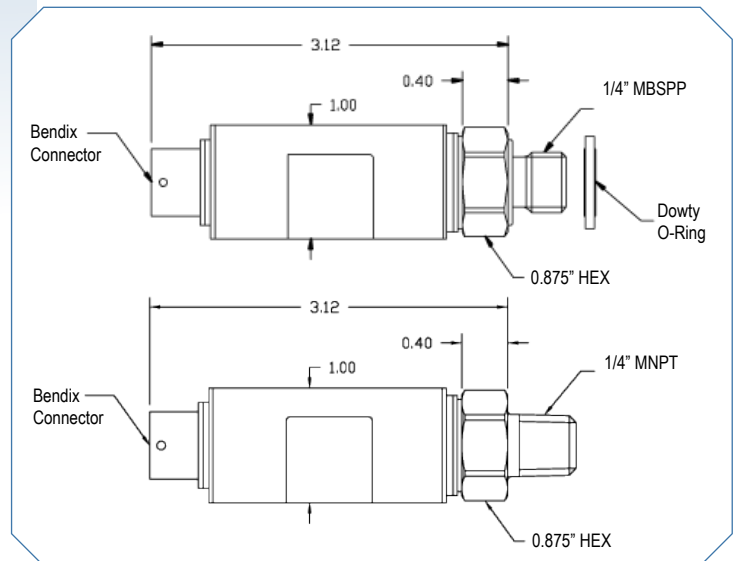
R= Bendix 6 pin
D= 10 ft.(3m) Cable (other lengths, consult factory)

Wetted Material

0=17-4PH

Options

000=No Special Options



HLR750 - Hermetically Sealed;
Hazardous location approved



SQ1250 - electrically and magnetically double shielded to maximize noise immunity and minimize their susceptibility to external AC magnetic fields

American Sensor Technologies

450 Clark Drive, Mt. Olive, NJ 07828
Tel 973.448.1901 Fax 973.448.1905
Email: info@astsensors.com

Macro Sensors

7300 US Route 130 N, Bldg 22, Pennsauken, NJ 08110
Tel 856.662.8000 Fax 856.661.8000
Email: lvdts@macrosensors.com