

AST47HP Pressure Sensors

With the increasing emphasis on vehicle efficiency, diesel fuel rail systems are being re-designed to run at higher pressures. American Sensor Technologies (AST) has been able to meet new requirements of engine manufacturers by supplying pressure transducers with pressure ratings up to 60,000 PSIG (4000 BAR) with the AST47HP High Pressure Package. Some of the main features include:

- ▶ One Piece Stainless Steel Construction
- ▶ Kystal Bond™ Technology is free of welds, silicon oil, and internal o-rings
- ▶ 100V/m of EMI/RFI Protection against electrical noise including ignition systems
- ▶ Various automotive /military connectors and custom cable lengths available for ease of installation
 - ✓ Mini-DIN 43650 C
 - ✓ Bendix (PT02-10-6P)
 - ✓ Standard Cable lengths of 2, 4, 6, and 10ft.

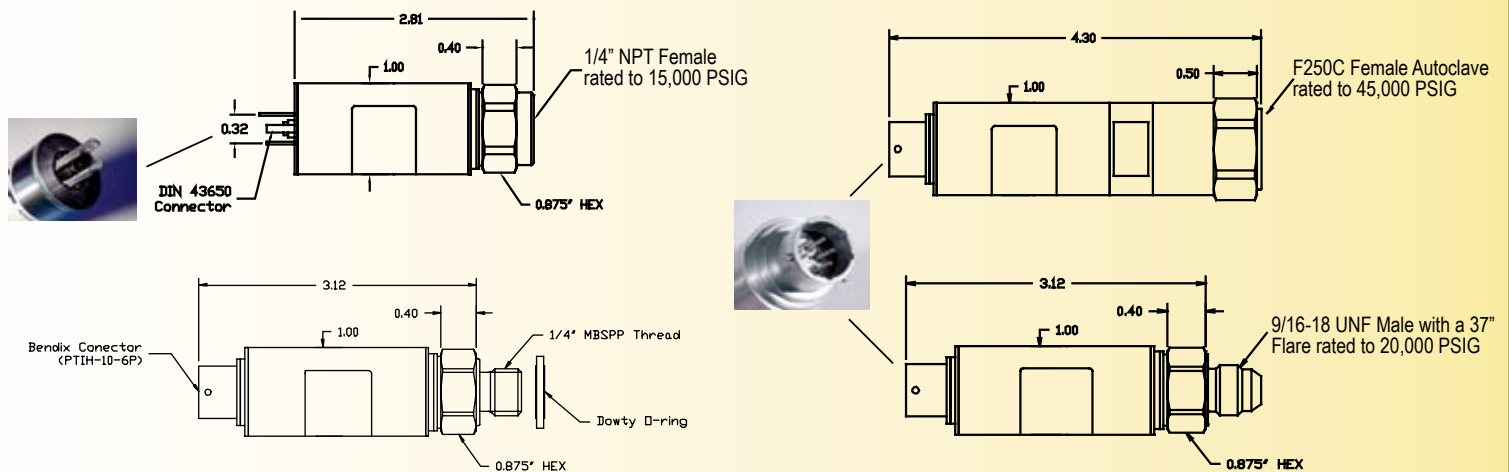


Also Ideal For:

- ▶ Water Jets & Water Tanks
- ▶ Test Stands
- ▶ Pipeline Instrumentation
- ▶ High Pressure Wells
- ▶ Hydraulics
- ▶ Injection Molding Equipment



HIGH PRESSURE SOLUTIONS



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Performance @ 25°C (77°F)

Accuracy ¹	< ± 0.25% BFSL (± 0.1% Optional)
Stability (1 year)	±0.25%FS, typ
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-68

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)

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.

Installation/Applications - The purchaser is responsible for media compatibility, functional adequacy, and correct installation of the transmitter.

AST47HP W 30000 P 4 R 0 000

Series Type

Configuration Interface

C= 1/4" BSP male
I= 1/4" NPT female
W= F250C female Autoclave
X= 9/16-18 UNF Male with 37° flare
X= M16* 1.5 Female with sealing cone

Pressure Range

Insert pressure range from chart below

Pressure Unit

B= Bar
K= kg/cm²
P= PSI

Outputs

2= 0-5V (3 wire)
3= 1-5VDC
4= 4-20mA
5= 0-10V (3 wire)

Electrical

A= 2ft cable (0.6m) D= 10ft cable (3m)
B= 4ft cable (1.2m) E= Mini DIN 43650
C= 6ft cable (1.8m) R= Bendix 6 pin (PT02-10-6P)

Wetted Material

0= 17-4 PH stainless steel

Options

000= No special options
123= M16*1.5 female with sealing cone
153= 9/16-18 UNF male with 37° flare

High Pressure Fittings Include:

1/4" BSP Male	10,000-15,000 PSI	(700-1000 BAR)
1/4" NPT Female	10,000-15,000 PSI	(700-1000 BAR)
9/16-18 UNF Male with 37° Flare	10,000-20,000 PSI	(700-1400 BAR)
F250C Female Autoclave	10,000-45,000 PSI	(700-3,000 BAR)
M16*1.5 Female with Sealing Cone	10,000-60,000 PSI	(700-4000 BAR)

www.astensors.com