

ASPT 11i

Industrial Pressure Transducer

The ASPT 11i Industrial Pressure Transducer is designed for demanding industrial applications. The pressure of the measured medium directly acts on the SS316L diaphragm of the sensor, causing the diaphragm to produce a micro displacement proportional to the pressure of the medium, changing the resistance value of the sensor, and detecting it with a Wheatstone circuit. This change, and convert and output a standard measurement signal corresponding to this pressure. The ASIC electronics offer analog 4-20mA loop powered output signals with 1/4" BSP Male process connection and Big DIN electrical connector



Major features

Gauge, Absolute and Vacuum Pressure Measurement

Pressures from vacuum up to 250 Bar

Process Temperature from -40 to 125 Deg C

Default integral snubber for pressure ranges starting from 25 Bar

Housing & Diaphragm Made of Premium Stainless Steel

Applications

- Engine Fuel Pressure Measurement
- Refrigeration and Air Compressors
- Hydraulic Systems
- Water Pressure Measurement
- Autoclaves & ETO Sterilizers
- Liquid & Gas Pressure Measurement
- Circuit Breakers

Technical Parameters

Performance

Accuracy*	: $\leq \pm 0.5\% \text{ FS}$ ($\leq \pm 0.25\% \text{ BFS}$)
Stability (1 year)	: $\leq \pm 0.25\% \text{ of FS}$
Insulation Resistance	: $> 100 \text{ M}\Omega/500\text{VDC}$
Over Range Protection	: 300% F.S. ($\leq 70 \text{ kPa}$) 200% F.S. ($\leq 10 \text{ MPa}$)
Temperature Drift	: $\leq \pm 1.5\% \text{ Fs}$ (-20 to 85 °C)
Response Time	: $\leq 90 \text{ ms}$ (upto 90% F.S.)
Reverse Polarity Protection	: Yes

Thermal

Temperature

Ambient Temp.	: -20 ~ 80°C
Medium Temp.	: -40 ~ 125°C
Storage Temp.	: -40 ~ 120°C

Thermal Limits

Compensated Range	: 0 ~ 70°C
TC Zero	: $\leq \pm 1.5\% \text{ FS}$
TC Span	: $\leq \pm 1.5\% \text{ FS}$

*Accuracy includes non-linearity, hysteresis & non-repeatability

Environmental

EMI/RFI Protection :	YES (Electromagnetic Compatibility Directive 2014/30/EU)
IP Rating*	IP65 minimum
Vibration	20g (25~2000 Hz) Sine Curve; IEC60068-2-6
Shock	200g/1ms; IEC 60068-2-27

Electrical

Output	4...20 mA
Excitation	10...28VDC

Wiring Guide

Output	Pin 1	Pin 2	Pin 3	Wide Pin
4...20 mA (2-wire)	+V	-V	N/A	N/A

Ordering Guide

ASPT11i-25-B-G-1-2-1-L- S

Model Family

ASPT11i- Industrial Pressure Transducer

Pressure Range

- Insert Pressure Code
- Consult factory for pressure above 3750 psi

Pressure Unit

- P= Psi
- B= Bar
- K= Kg/Cm2
- M= Millibar
- W= Inches of H2O

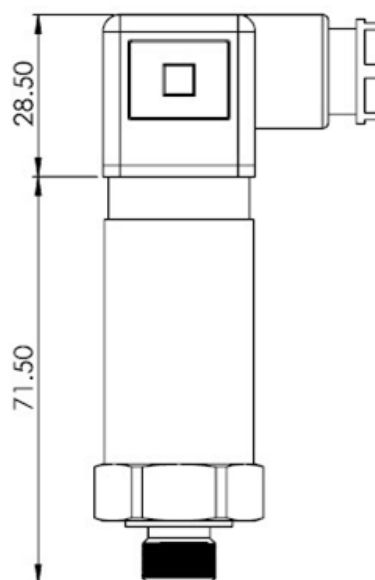
Pressure Reference

- G= Gauge
- C= Compound
- A= Absolute
- S= Sealed Gauge

Output

- 1 = 4-20 mA

Dimension



Special Options

- S = Snubber
- D = Head Mount Display

Wetted Parts

- L= 316L SS

Process connection

- 1= G1/4"Male

Electrical

- 2= Big DIN

Due to continuous development of our products technical information's are subject to change.
Please ensure the compatibility between the measured medium and the contacting part of the product when placing an order.

ACT Sensors reserves the right to make any change in this datasheet without notice. The information provided is believed to be accurate and reliable as of this product sheet.

Contact factory for custom configurations not shown



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Your Engineering Partner...

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