



T-ASH-G2-100 Sensor

Ashcroft (100-psig) Gauge Pressure Sensor

The 100-psig Ashcroft Gauge Pressure Sensor provides precision pressure measurements in compressed air systems, water, or other compatible gases and fluids with an accuracy of $\pm 1\%$ FS from -20° to 85°C (-4° to 185°F) and only $\pm 1.5\%$ FS -40° to -20°C and 85° to 125°C (-40° to -4°F and 185° to 257°F). This sensor requires the FlexSmart Analog Module.

Requires analog port selection during U30 system configuration and use of a S-FS-CVIA when using the H22-001 data logger. When using a U12 data logger, this sensor requires an 0-5 Vdc analog input cable (CABLE-ADAP5) and external power provided by an AC adapter (AC-SENS-1).

To download additional information and manuals from Ashcroft click [here](#).

Supported Measurements:

Gauge Pressure

Key Advantages:

- High-performance pressure transducer for industrial applications.
- 1/4" NPT stainless-steel pressure connection.



T-ASH-G2-100 Sensor Specifications

Measurement ranges: 100, 200, 500 psig

Compensated temp range: -40° to 125°C (-40° to 257°F)

Accuracy:

±1% FS from -20° to 85°C (-4° to 185°F)

±1.5% FS -40° to -20°C and 85° to 125°C (-40° to -4°F and 185° to 257°F)

Non-linearity: less than ±0.1% of span typical

Non-repeatability: less than ±0.03% of span typical

Hysteresis: less than ±0.01 of span typical

Stability: less than ±0.25% of span/year

Durability: tested to 50 million cycles

Overpressure: 200% FS

Response time: less than 1 msec

Power: 9-36 VDC, 5mA

Operating temp range: -40° to 125°C (-40° to 257°F)

Operating humidity range: 0 to 100% RH, no effect

Output signal to FlexSmart module: 0-5 VDC, 3 wire

Insulation breakdown voltage: 100 VAC

Insulation resistance: greater than 100 megohms at 100 VDC

Construction: Shielded cable, 24 AWG, PVC jacket, 1-meter

Pressure connection: 1/4" NPT 304 stainless steel

Sensor material: 17-4PH stainless steel

Housing material: 20% glass reinforced nylon, fire retardant to UL94 V1

CE compliance: Per EN 61326: 1997 + A1: 1998 + A2: 2001, Annex A (Heavy Industrial)

Dimensions: 2.9 cm diameter x 6.4 cm long (1.15 in. diameter x 2.5 in. long)

Outer cable diameter dimension: 0.21 in. (5.4-mm)

Weight: 89.4g (3.15oz)

Number of data channels: 1

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