



Features

- Full Scale Differential Pressure Ranges as Low as ± 0.1 psid
- Low Cost OEM Transducer
- DC Power/DC Signal
- Custom Pressure Ports Available
- Small Sensor Displacement Volume

Description

The Validyne P398 is an DC power/DC signal pressure transducer designed for exceedingly low differential pressure measurement in cost-sensitive OEM applications. With full scale ranges down to ± 0.8 psid, this sensor is ideal for the measurement of very low flow rates of air and gases for pulmonary and HVAC applications. It can also be used in small leak detection and pressure null detection systems.

The P398 can be mounted conveniently inside your enclosure. Custom configuration for your OEM application includes:

- FS Pressure Range
- Power Supply Voltage
- Output Signal
- Pressure Port
- Operating Temperature Range

The P398 is self-contained and produces a DC output signal proportional to its pressure range.

Validyne will work with you to define the transducer requirements needed for your specific application.

Specifications

Standard Ranges: ± 8 to ± 100 Psid FS

Accuracy: $\pm 0.25\%$ Full Scale

Overpressure: $\pm 200\%$ Full Scale with less than 0.5% Full Scale Zero Shift

Overpressure Limit: to 2X FS

Line Pressure: 300 psig, less than 1% Zero Shift

Power: +12 Vdc, Other options available

Signal: 0 to +2.5 Vdc to +5 Vdc = -FS to 0 to +FS
Other options available

Pressure Media: Gases compatible with 410ss, Inconel

Temperature:
Operating: 0 to 160°F
Compensated: 0 to 160°F

Thermal Zero Shift: 2%FS/100°F typical

Thermal Sensitivity Shift: 3%/100°F typical

Pressure Cavity Volume: 4×10^{-3} cubic inch

Volumetric Displacement: 3×10^{-4} cubic inch

Pressure Connection: Hose barb for 3/16" ID tubing

Electrical Connection: Pigtail Leads, length as required
Other options available

Size: 1.5" x 1.5" x 1.6"

Weight: 8 ounces, typical