

DELIVERING EXCELLENCE

7887 Digital Pressure Sensor

FEATURES

- High accuracy ± 100 ppm of FSP
- High resolution
- High stability ± 100 ppm / Year
- Ultra low noise
- User-configurable
- Serial data interface

BENEFITS

- Simple system integration
- Direct pressure units output
- Rugged, compact size

APPLICATIONS

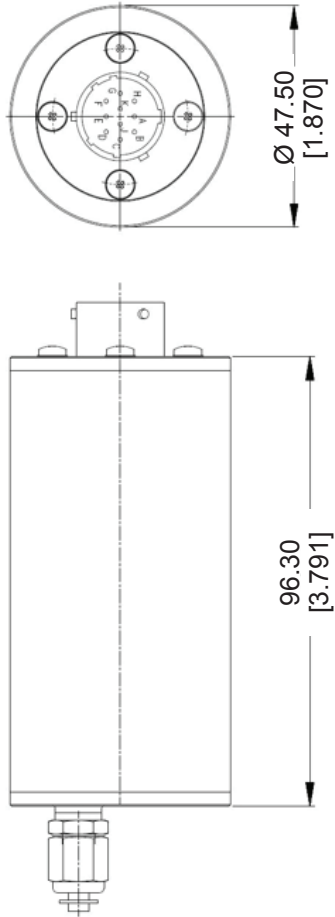
- Semiconductor manufacture
- Process monitoring & control
- Meteorology Barometer
- Transfer standard



■ Using the proven vibrating cylinder technique, developed by Auxitrol Weston at Farnborough since 1957, the Model 7887 series pressure sensors have been developed specifically to meet the need for an intelligent instrument that provides an exceptionally high accuracy and resolution absolute pressure measurement.

■ On-board frequency and temperature measurement circuitry provide a microprocessor compensated pressure measurement output in the user-configured pressure units. The output is delivered via a user-selectable RS422/485 or RS232 serial data interface.

■ Other features include user-configurable options for pressure units and output update rate.



UNITS: MILLIMETRES [INCHES]

Typical Performance Specification

Pressure Calibration	
Range	75kPa to 115kPa absolute (Barometer option - other ranges available)
Calibration Gas	Dry Air (calibration for other gases possible)
Over-Pressure	
Limits	No calibration change to 3 x FSP Burst pressure greater than 5 x FSP
Pressure Medium Air, non-condensing	
Operating Temperature	
Range	0 to +60°C (optionally -40 to +85°C)
Combined	
Accuracy	Better than ± 100ppm of FSP
Repeatability	Better than ± 10ppm of FSP
Noise	Available on request
Resolution	Available on request
Long-Term Stability	Better than ± 100ppm of FSP max per year, typically less than ± 50ppm.
Pressure Measurement	
Output	Available on request
Output Update Rate/ Integration Period	User configurable
Serial Communication	
Modes	RS-232 or RS-485 (user selectable)
Baud Rates	User configurable
Power Supply	5 to 12Vdc, 500mW max (optionally 18 to 32Vdc)
Electrical	
Connector	Circular, size 12-10 Military qualified connector
Pressure	
Connector	Compression fitting for 1/8 inch tube (other options available)
Weight	< 500g

Featuring AUXITROL, WESTON & NORWICH products

Examples shown above are for information, dimensions can be modified to meet unique installations

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