



7800 Vibrating Cylinder Pressure

FEATURES

- 145kPa abs FSP range
- High Accuracy:< +/-140ppm FSP
- RVSM (sensor) accuracy:
 10.2 ft @29,000ft;
 16.9ft @ 41,000ft
- Low drift:< +/- 100ppm FSP/year
- Individual cal data stored on-board

BENEFITS

- · Lightweight, board-mountable
- Compact footprint
- Single sensor type for both Ps and Pt
- · Long re-calibration intervals

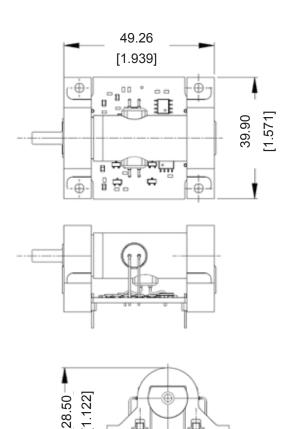
APPLICATIONS

- · Air Data Computers
- Air Data Test Sets



- With over 60 years of application and development, the vibrating cylinder is still recognised as the industry benchmark for accuracy and drift performance when it comes to pressure measurement.
- Using the flight-proven vibrating cylinder technique, developed by Auxitrol Weston at Farnborough since 1957, the 7800 series pressure sensors have been developed specifically for airdata applications.
- The high accuracy, repeatabilty and low drift make the vibrating cylinder one of the few technologies capable of meeting Reduced Vertical Seperation Minima requirements.





UNITS: MILLIMETRES [INCHE]

Typical Performance Specification

Pressure Calibra	tion
Range	10.3kPa to 145kPa absolute
	(other ranges available)
Over-Pressure	
Limits	No calibration change to 3 x FSP (435kPa)
	Burst pressure greater than 5 x FSP (725kPa
Pressure Mediun	n Air, non-condensing
Operating Tempe	erature
Range	-40 to +85°C
	(optionally -55 to +85°C for sensor)
Combined	
Accuracy	Better than ± 140ppm of FSP
Repeatability	Better than ± 12ppm of FSP
Long-Term Drift	± 100ppm of FSP max per year,
	typically less than ± 50ppm
Pressure	
Output Signal	Square-wave frequency
	output related to pressure
Temperature	
Output Signal	Available on request
Sensor Power	
Supply	+15Vdc +/-1V, 20mA max
Non-volatile Men	nory
Interface(for Cali	bration
Coefficents)	I2C serial interface, 2.5 to 5.5V supply
Weight	60g
Environmental	Tested to RTCA DO-160

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

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AFTER - SALES SUPPORT:

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