

Barometric Pressure Sensors

090D
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Barometric Pressure Sensors convert absolute atmospheric pressure into a linear, proportional voltage, which may be used in any meteorological program.

Features

- Compact size
- Weatherproof enclosure
- Remote output
- Permanent calibration
- Robust construction

These sensors are inherently stable devices that do not require periodic service or routine recalibration.

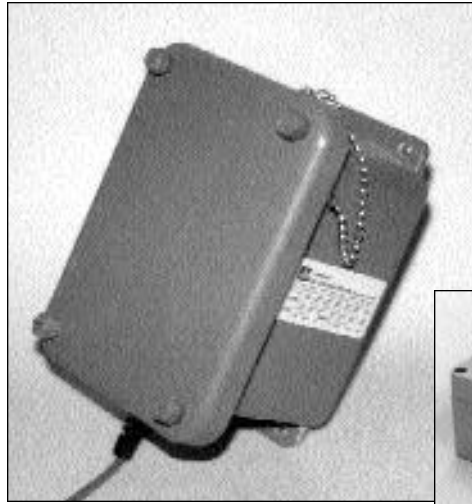
Operation

The enclosure houses a solid-state pressure transducer, with linearization and amplification electronics.

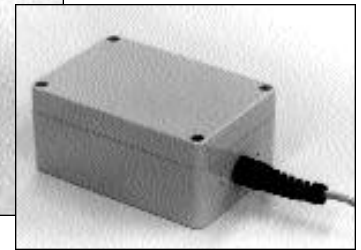
The Model 090D is housed in a heavy duty fiberglass enclosure, suitable for harsh and severe environments. A hose barb is provided to enable the connection of a 1/4" sampling tube to the outside environment.

The Model 091 is contained within a small polycarbonate enclosure, and may be mounted outside or inside a building or other enclosure. Small inlet holes allow the atmospheric pressure access to the sensing element.

The standard range of the 090D/ 091 is 26-32 in. Hg,* suitable for elevations sea level to 1500 ft. Other ranges are available.



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091

Specifications

Performance

Resolution:	Infinite
Temp. Operating Range:	-40°C to 65°C
Temp. Compensated Range:	-18°C to 65°C
Accuracy:	±0.04 in Hg (±1.35 mbar) or ±0.125% FS

Electrical Characteristics

Power Requirement:	11 mA @ 12 VDC, Typical
Sensor Output:	0-1 VDC, Standard 0-5 VDC, Optional

Physical Characteristics

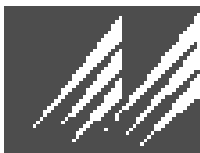
090D	Weight:	2 lbs, 5 oz (1.05 Kg)
	Dimensions:	5.5 x 5 x 7.5 in (14 x 12 x 19 cm)
091	Weight:	8.8 oz. (250 g)
	Dimensions:	2.1 x 3.2 x 5 in (5.4 x 8.3 x 13 cm)

Ordering Information

	Specify elevation
	Specify output voltage
Cable:	#1169-xx (xx = length in feet)
	Specify length in feet

Specifications subject to change without notice.

*Conversions: 1 in. Hg = 3.3864 kPa, 1 in. Hg = 33.864 mbar, 1 in. Hg = 25.4 mm/Hg



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