SENSORS

MODEL 1522

Barometric Pressure Sensor

General Description

The Model 1522 Barometric Pressure Sensor provides a standard span of 100 mb which is based on the site elevation referenced to Mean Sea Level (MSL) elevation. The site elevation may range from -988 to 11,775 feet (MSL). Therefore the solid state pressure data output is the MSL pressure equivalent at the site elevation. The solid state technology allows accurate pressure measurement with excellent repeatability and temperature compensation. Low power consumption makes the 1522 ideally suited for portable and remote sensing applications.

The Model 1522 consists of a pressure sensor in a fiber reinforced thermoplastic case, mounted in a NEMA-4X enclosure, and a signal cable. The output signal of the sensor is 0-5 Vdc. The output signal is linearly proportional to the barometric pressure. The signal conditioning is micro processor controlled and can be user configured through a serial connection.

Specifications

Range	100 mb span is standard, 600 mb span is available (500 – 1100 mb)
Output	0 to 5 Vdc
Power	12 Vdc
Current drain	2.8 mA
Accuracy	0.05% of analog pressure range; 0.0017% of analog pressure range per °C (25°C reference
Output Rate	1.8 Hz to 60 Hz
Operating temperature	-50 °C to +60 °C
Serial Programming	Full duplex RS-232, 1200 to 38400 baud
Cable length	15 ft. standard with MS connector
Size	SENSOR: 2.0 in. x 3.5 in.; NEMA-4X enclosure: 7.125 in. x 4.75 in. x 3.75 in.
Weight	2 lbs.
Shipping weight	4 lbs.

Ordering Information

1522	Barometric Pressure Sensor — Includes: 0-5 Vdc output; 15 ft. Cable and MS Connector; (Specify elevation where instrument will be used.)
1522C	Additional Cable, per foot