MODEL 1522RMY
Barometric Pressure Sensor

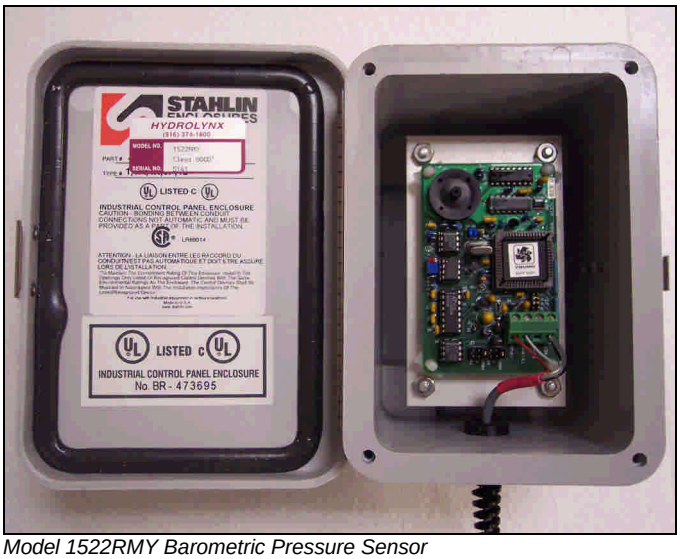
General Description

The Model 1522RMY Barometric Pressure Sensor provides solid state barometric pressure data between the elevations of -988 and 11,775 feet. The solid state technology allows accurate pressure measurement with excellent repeatability and temperature compensation. Low power consumption makes the 1522RMY ideally suited for portable and remote sensing applications.

The Model 1522RMY consists of a pressure sensor mounted on a printed circuit board, 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
500 mb span is available (600 – 1100 mb)
Output: ..... 0 to 5 Vdc
Power: ..... 12 Vdc
Current drain: ..... 10 mA
Accuracy: ..... ± 0.3 mb at 20 °C
± 0.5 mb at -50 °C to +60 °C
Output Rate: ..... Once per second (1 Hz)
Operating temperature: ..... -50 °C to +60 °C
Serial Programming: ..... Full duplex RS-232, 9600 baud
Cable length: ..... 15 ft. standard with MS connector
Size:
PCB: ..... 2.25 in. x 3.5 in.
NEMA-4X enclosure: ..... 7.5 in. x 5.5 in. x 5 in.
Weight: ..... 3 lbs.
Shipping weight: ..... 5 lbs.



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Pressure Altitude Equivalents

mb	in Hg	Altitude (ft.)
813	24.0	5974
820	24.5	5425
847	25.0	4886
864	25.5	4356
880	26.0	3824
897	26.5	3320
914	27.0	2814
931	27.5	2315
948	28.0	1824
965	28.5	1340
982	29.0	863
999	29.5	392
1013	29.92	std sea level
1016	30.5	-73
1033	31.0	-531

Ordering Information

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