

MODEL 5730

Barometric Pressure Sensor

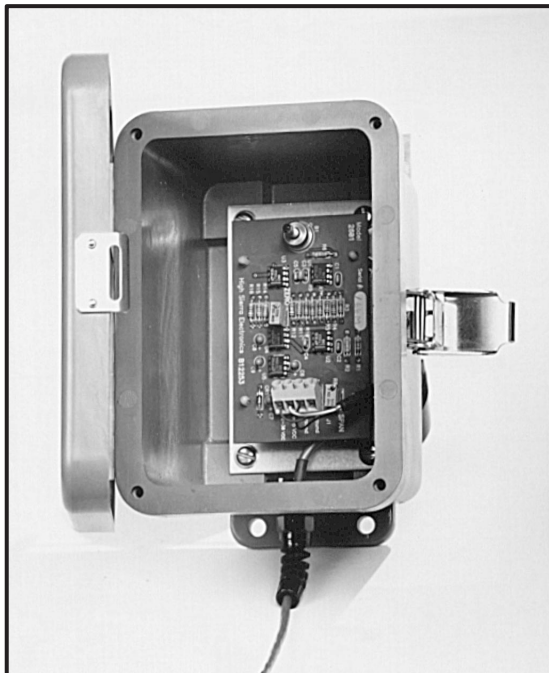
- Solid-State Technology
- Excellent Repeatability & Temp Compensation
- Low Power Consumption
- Durable NEMA 4X Enclosure



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DESCRIPTION:

The Model 5730 Barometric Pressure Sensor provides solid-state barometric pressure data for all elevations. This advanced technology allows accurate pressure measurement with excellent repeatability and temperature compensation. Low power consumption makes the 5730 ideally suited for portable and remote sensing applications.

The Model 5730 consists of a pressure sensor connected to a signal conditioning board. The signal conditioning board is housed in a NEMA 4X enclosure and includes a 15 foot signal cable. A reusable Model 5000 Desiccant Canister is included. The sensor's output signal is conditioned to provide a 0-5VDC, output. The output signal is linearly proportional to the barometric pressure. A zero adjustment potentiometer is used for field calibration.

Typically, the factory calibration would be for the range of 850 to 1050 millibars (25.10 to 31.00" of Hg) corrected for the customers elevation. If the actual BP is the standard pressure of 1013mB and the elevation is 3000', the 5730 would read 1013 even though the station pressure is 908mB.

A calibration certificate is included.

SPECIFICATIONS:

Range.....	200mB Span, Standard 85mB & 100mB optional
Zero Adjust.....	600mB to 950mB
Output.....	0 to 5 VDC
Power.....	12 VDC
Cable Length.....	15 Foot Standard w/4 pin ms connector
Current Drain.....	50mA Maximum
Accuracy.....	Sensor... ±0.1% Overall... ±1.0mB Linearity... ±0.5mB Hysteresis... ±0.05% Span
Turn On Time.....	10ms to 99% of Full Scale Reading
Operating Temperature.....	-40°C. to 125°C. (-40°F. to 257°F.)
Temperature Compensation..	Range is 0° to 70°C. (32°F. to 158°F.)
Temperature Effects.....	±5.5 mB over Compensated Range
Operating Media.....	Non Conducting, Non Corrosive Gasses Only
Size.....	7.5" x 5.5" x 5"
Weight.....	3 Pounds
Shipping Weight.....	6 Pounds

ORDERING GUIDE:

Model 5730..... Barometric Pressure Sensor
(Specify installation elevation)

OPTIONAL:

Model 5101..... Extra Cable, 3 Conductor
(1 Foot Increments)
Model 5730-1..... BP Calc Software

ACCURACY YOU CAN COUNT ON

WEB SITE: www.highsierraelectronics.com E-MAIL: info@highsierraelectronics.com