

Model 5730-03 Barometric Pressure Sensor

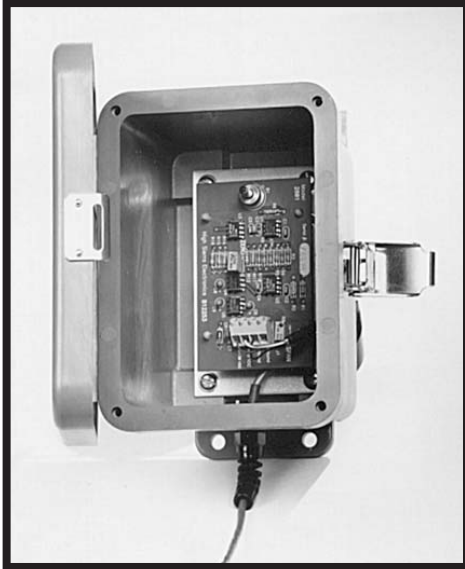
- Excellent Repeatability & Temp Compensation
- Solid-State Technology
- Low Power Consumption
- Durable NEMA Weather Resistant Enclosure



PHONE: (800) 275-2080

HIGH SIERRA ELECTRONICS, INC.

FAX: (530) 273-2089



BENEFITS:

- Monitor barometric pressure for changing weather conditions such as high pressure may support sunny, clear, and lower levels may support rain and cloudy weather conditions.
- Record Data which can be used to forecast weather conditions.
- Monitor the differences in barometric pressure over large inland lakes which can produce seiches, affect water levels in the lake and adjoining estuaries.

DESCRIPTION:

The Model 5730-03 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 5730-03 ideally suited for portable and remote sensing applications.

The Model 5730-03 consists of a pressure sensor connected to a signal conditioning board. The signal conditioning board is housed in a NEMA weather resistant enclosure and includes 12 ft (3.7 m) of signal cable. A reusable Model 5000-00 Desiccant Canister is included. The sensor's output signal is conditioned to provide a 0 to 5 VDC 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 25.1 to 31 inches of Hg (850 to 1050 millibars), corrected for your installation elevation. If the actual BP is the standard pressure of 1013 mB and the elevation is 3000 ft (914.4 m), the 5730-03 would read 1013 mB even though the station pressure is 908 mB.

A calibration certificate is included.

02-5730-03(B)

Environmental Monitoring Solutions

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

Model 5730-03 Barometric Pressure Sensor

SPECIFICATIONS:

Barometric Pressure Ranges 200 mB span, standard, (85 mB & 100 mB, optional)

Output 0 to 5 VDC

Zero Adjust 600 to 950 mB

Accuracy

Sensor $\pm 0.1\%$

Overall ± 1.0 mB

Linearity ± 0.5 mB

Hysteresis $\pm 0.05\%$ span

Operating Temperature -40° to 257° F (-40° to 125° C)

Temperature Compensation Range to 32° to 158° F (0° to 70° C)

Temperature Effects ± 5.5 mB over compensated range

Turn On Time 10 ms to 99% of full scale reading

Operating Media Non conducting, non corrosive gases only

Operating Voltage 12 VDC

Current Drain 50 mA maximum

Cable 12 ft (3.7m) 5-conductor 24 AWG with 4-pin MS connector

Dimensions 7.5 x 5.5 x 5 in (19.1 x 14 x 12.7 cm)

Weight 3 lbs (1.4 kg)

Shipping Weight 6 lbs (2.7 kg)

ORDERING GUIDE:

Model 5730-03 Barometric Pressure Sensor; Includes 12 ft (3.7 m) Cable with MS Connector, Enclosure, and Mounting Hardware.
Specify custom elevation at time of order

OPTIONS/SPARE PARTS:

Model 5102-00 Signal Cable; 5-conductor 24 AWG (Price per foot)

Model 5000-00 Desiccant DRI-Can Moisture control desiccant package.

See www.highsierraelectronics.com for more specification and ordering information.

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