

COASTAL ENVIRONMENTAL SYSTEMS
820 First Avenue South
Seattle, Washington 98134-1202



Telephone: 206-682-6048
1-800-488-8291
Fax: 206-682-5658
www.coastalenvironmental.com

SENSOR

PART#: S1081H
S1081W
S1081Z

Barometer 1081

- 1 hPa Accuracy • Economical • High Resistance to Harsh Environments •

Principle of Operation

The Barometer 1081 pressure sensor is an economical, monolithic, piezo-resistive with laser-minimal temperature compensation pressure sensor.

The sensor is mounted inside the WEATHERPAK® housing, or in the NEMA® enclosure of the ZENO®, on a small circuit board which provides precision current excitation and signal conditioning. A pressure inlet tube extends from the sensor to a protected pressure port which terminates under the radiation shield.

Technical Specifications

Measurement

Range: 600 -- 1100 hPa
Resolution: 1 hPa reported
Accuracy: +/- 1 Mbar at 22°C
+/- 3 Mbar -30°C to 65°C

Electrical

Input Voltage: +10 VDC and +5.000 VDC
Current: 3 mA (max)
Output Signal: 0-5 VDC after signal conditioning
Connectors: 4 pin header

Environmental

Operation Temperature: -40 to +85°C
Compensated Temperature: 0°C to 50°C

Physical

Size: 32 x 47 x 20 mm (*h x w x d*)
including circuit board
Weight: 17 g (.6 ozs)

The following products are compatible
with the Barometer 1081 sensor:

- ZENO®-3200
- WEATHERPAK®
- C5-SAM

