COASTAL ENVIRONMENTAL SYSTEMS

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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 lazer-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

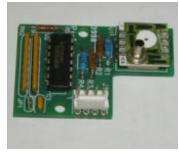
Size: $32 \times 47 \times 20 \text{ mm} (h \times w \times d)$

including circuit board

Weight: 17 g (.6 ozs)

The following products are compatible with the Barometer 1081 sensor:

- ZENO®-3200
- WEATHERPAK®
- C5-SAM



S1081 • 2/14/00