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PRODUCT



## Wider Pressure Range

Resides inside weatherproof enclosure

## Overview

The CS106, manufactured by Vaisala, measures barometric pressure for the range of 500 to 1100 hPa (mBar). This range equates to from below sea level (as in a mine) to over 15,000 feet above sea level. Designed for use in environmental

## **Benefits and Features**

- > Optimized to mount in Campbell Scientific enclosures
- Integral switching circuit limits power consumption to measurement cycle

**Detailed Description** 

The CS106 uses Vaisala's BAROCAP silicon capacitive sensor to measure barometric pressure. It is encased in a plastic shell (ABS/PC blend) fitted with an intake valve for pressure equilibration.

applications, the CS106 is compatible with most Campbell Scientific data loggers. The CS106 has an attached 76.2 cm (30 in.) cable.

Three-year warranty

The CS106 outputs a linear signal of 0 to 2.5 Vdc, which allows the barometer to be directly connected to a Campbell Scientific data logger. An internal switching circuit allows the data logger to power the CS106 only during measurement, which reduces power consumption.

## **Specifications**

-NOTE-	1 hPa = 1 mBar
Pressure Range	500 to 1100 hPa
Long-Term Stability	± 0.1 hPa per year

Settling Time	1 s to reach full accuracy after power-up
Response Time	500 ms to reach full accuracy after a pressure step
Output Voltage	0 to 2.5 Vdc

For comprehensive details, visit: www.campbellsci.com/cs106 🕮





Supply Voltage	10 to 30 Vdc
Elevation	~609.6 m (2,000 ft) below sea level (as in a mine) to 4,572 m (15,000 ft) above sea level
Accuracy	<ul> <li>±1.5 hPa (@ -40° to +60°C)</li> <li>Accuracy refers to the root sum squared (RSS) of end point nonlinearity, hysteresis, repeatability, and calibration uncertainty.</li> <li>±0.3 hPa (@ +20°C)</li> <li>±0.6 hPa (@ 0° to 40°C)</li> <li>±1.0 hPa (@ -20° to +45°C)</li> </ul>

Linearity	±0.25 hPa
Hysteresis	±0.03 hPa
Repeatability	±0.03 hPa
Calibration Uncertainty	±0.15 hPa
Current Consumption	》< 1 μA (quiescent) 》< 4 mA (active)
Temperature Range	-40° to +60°C
Dimensions	6.8 x 9.7 x 2.8 cm (2.7 x 3.8 x 1.1 in.)
Cable Length	76.2 cm (30 in.)
Weight	90 g (3.2 oz)

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