

# Campbell Scientific CS100 Barometric Pressure Sensor

[www.campbellsci.com.au/cs100](http://www.campbellsci.com.au/cs100)



www.campbellsci.com.au  
16 Somer Street Hyde Park QLD 4812  
tel +61 7 4772 0444 fax +61 7 4772 0555



**CAMPBELL  
SCIENTIFIC**  
Australia, Pty Ltd

# CS100 Barometric Pressure Sensor

- \* Measures barometric pressure over the 600 to 1100 mb range; extended barometric pressure range version is available
- \* Three year warranty
- \* Low power consumption
- \* Integral mounting bracket optimised for mounting directly to Campbell Scientific enclosures
- \* Manufactured by Setra



*The CS100 provides accurate, unattended measurements of barometric pressure over a wide range of elevations.*

The CS100 Barometer uses Setra's Setraceram™ capacitive sensor and IC analog circuit to measure barometric pressure over a 600 to 1100 millibar range. The CS100 outputs a linear signal of 0 to 2.5 Vdc allowing it to be directly connected to Campbell Scientific dataloggers. Sensor warm-up and measurement time is one second minimum.

## Construction and Mounting

The sensor is housed in a stainless steel and polyester case fitted with an 1/8" barbed fitting for pressure connection. A removable terminal strip provides for datalogger power and signal connections. The barometer is supplied with 2.5' of cable and is intended to mount inside an ENC 12/14 or larger enclosure.

## "High Altitude" Version

Campbell Scientific offers a version of the CS100 that measures barometric pressure over a 500 to 1100 millibar range. Contact us for more information.

**FREE  
Technical Support  
& Basic Software**

## Manufacturer's Specifications

- Total Accuracy<sup>1</sup>:  $\pm 0.5$  mb @ +20°C  
 $\pm 1.0$  mb @ 0° to 40°C  
 $\pm 1.5$  mb @ -20° to +50°C  
 $\pm 2.0$  mb @ -40° to +60°C
- Linearity:  $\pm 0.4$  mb
- Hysteresis:  $\pm 0.05$  mb
- Repeatability:  $\pm 0.03$  mb
- Resolution:  $\pm 0.01$  mb
- Long-Term Stability:  $\pm 0.1$  mb per year
- Response Time: <100 ms
- Operating Temperature: -40° to +60°C
- Dimensions: 3.6" x 2.4" x 1.0" (9.1 cm x 6.1 cm x 2.5 cm)
- Weight: 4.8 oz (135 g)
- Excitation: 9.5 to 28 Vdc
- Current Consumption: <3 mA (active), <1  $\mu$ A (sleep mode)
- Warm-up Time: <1 s
- CE Compliant

<sup>1</sup>The root sum squared (RSS) of end point non-linearity, hysteresis, repeatability, and calibration uncertainty.

## CONTACT OUR TEAM TODAY!

t +61 7 4772 0444  
f +61 7 4772 0555  
www.campbellsci.com.au  
info@campbellsci.com.au  
16 Somer St, Hyde Park QLD 4812