

Barometric Pressure Sensors

Resonant silicon technology, silicon capacitance





Barometric pressure sensors measure fluctuations in the pressure exerted by the atmosphere. The sensors require protection from condensing humidity, precipitation, and water ingress. They are typically housed with the data logger inside an environmental enclosure. If the enclosure is airtight, the sensor's pressure port must be vented to the atmosphere.

CS100
Barometric Pressure
Sensor
Popular



	Pressure Range	Elevation	Temperature Range	Accuracy
	600 to 1100 hPa	~609.6 m (2,000 ft) below sea level (as in a mine) to 3,657.6 m (12,000 ft) above sea level	-40° to +60°C	<ul style="list-style-type: none"> ➤ Accuracy refers to the root sum squared (RSS) of end point non-linearity, hysteresis, repeatability, and calibration uncertainty. ➤ ±1.5 hPa (@ -20° to +50°C) ➤ ±0.5 hPa (@ +20°C) ➤ ±2.0 hPa (@ -40° to +60°C) ➤ ±1.0 hPa (@ 0° to 40°C)

	<i>Pressure Range</i>	<i>Elevation</i>	<i>Temperature Range</i>	<i>Accuracy</i>
CS106 Barometer 	500 to 1100 hPa	~609.6 m (2,000 ft) below sea level (as in a mine) to 4,572 m (15,000 ft) above sea level	-40° to +60°C	<ul style="list-style-type: none"> ▶ ±0.6 hPa (@ 0° to 40°C) ▶ ±1.0 hPa (@ -20° to +45°C) ▶ Accuracy refers to the root sum squared (RSS) of end point non-linearity, hysteresis, repeatability, and calibration uncertainty. ▶ ±1.5 hPa (@ -40° to +60°C) ▶ ±0.3 hPa (@ +20°C)
092-L Barometer 	600 to 1100 hPa	<ul style="list-style-type: none"> ▶ ~609.6 m (2,000 ft) below sea level (as in a mine) to 3,657.6 m (12,000 ft) above sea level ▶ Sea level to 3048 m (10,000 ft) 	-40° to +55°C	<ul style="list-style-type: none"> ▶ ±0.35 hPa (@ 20°C) ▶ ±0.5 hPa (over any 200 hPa range) ▶ ±1.0 hPa (±0.03 in Hg) over full range

For comprehensive details, visit: www.campbellsci.com/barometric-pressure 

