

# Barometric Pressure Sensor



Model No: OBP01

Barometric Pressure Sensor is a SMD-hybrid device including a piezo resistive pressure sensor and an ADC- Interface IC. It provides a 16 Bit data word from a pressure and temperature dependent voltage. Additionally, the module contains 6 readable coefficients for a highly accurate software calibration of the sensor. Pressure sensor is a low power, low voltage device with automatic power down (ON/OFF) switching. SDI-12 / RS485 interface is used for all communications with a microcontroller.



## Features:

- highly accurate, solid state pressure sensor
- Low power design makes it ideally suited for remote monitoring applications.
- Capable of operating from elevations of 2300 feet below sea level to 18,300 feet above sea level
- Wide temp range  $-40^{\circ}\text{C}$  to  $+80^{\circ}\text{C}$
- Low power consumption
- Solid state construction
- Low cost
- Light weight design making it ideally suited for remote monitoring applications.

## Technical Specifications:

Pressure Range	:	260 to 1260 hPa. standard range
Digital Accuracy	:	$\pm 0.2\text{hpa}$ ( $-40^{\circ}\text{C}$ to $+80^{\circ}\text{C}$ )
Response Time	:	0.5 S
Resolution	:	0.01hpa
Accuracy	:	0.02% FSO
Serial Output	:	SDI-12, RS-232 and RS-485 5Vdc to 16Vdc
Supply Voltage	:	15mA with V out (standard) 20mA with serial I/O

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