



# 61402 BAROMETRIC PRESSURE SENSOR



## Product Description

Barometric Pressure Sensors combine high accuracy and low power over a wide range of pressures and temperatures.

**Now available with SDI-12 output.**

61402V provides a calibrated 0-5 VDC analog output. Analog current consumption is less than 4 mA. A special “sleep” mode further reduces current draw to a few  $\mu$ A. RS232 serial output is also available.

Model 61402L features a standard 4-20 mA output or user selectable serial interfaces SDI-12, RS-232, RS-485.

The compact size of the barometer allows easy placement in most standard instrument enclosures. A plug-in connector simplifies wiring.

For outdoor use, an optional Weatherproof Enclosure offers a convenient mounting location while the Pressure Port helps minimize dynamic pressure errors due to wind.



## Technical Specifications

Pressure Range	500 to 1100 hPa
Operating Temperature	-40 to +60°C
Digital Accuracy	0.2 hPa (25°C) 0.3 hPa (-40 to +60°C)
Analog Accuracy	0.05% of analog pressure range
Analog Temperature Dependence	0.0017% of analog pressure range/ °C (25°C reference)
Long Term Stability	0.08% FS per year
Update Rate	1.8 Hz max
Serial Output	Full duplex RS-232 1200 to 38400 baud SDI-12, half duplex RS-485 (61402L only) Polled or continuous ASCII text, NMEA
Analog Output	0 to 5000 mV, 0 to 2500 mV (61402V) 4 to 20 mA (61402L)
Resolution	Serial 0.01 hPa Analog 0.025% of analog scale
Power	7 to 30 VDC 61402V: Vout, 3.6 mA Sleep mode, 2.7 $\mu$ A RS-232, 7.6 mA 61402L: 4-20mA, 25mA max RS-232 or RS-485, 8.5mA SDI-12, 1.5mA
Dimensions	90 mm x 60 mm x 20 mm
Weight	44 g