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

Now available with SDI-12 output.

Model 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 µA. 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.

Ordering Information		MODEL
BAROMETRIC PRESSURE SENSOR, 0-	-5 VDC	61402V
BAROMETRIC PRESSURE SENSOR, 4-		
WEATHERPROOF ENCLOSURE		61360
PRESSURE PORT WITH OFFSET BRAC	KET	61002

C Complies with applicable CE directives. Specifications subject to change without notice.



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

SDI-12, half duplex RS-485 (61402L only)

1200 to 38400 baud

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 µA

- RS-232, 7.6 mA

61402L - 4-20 mA, 25 mA max

- RS-232 or RS-485, 8.5 mA

- SDI-12, 1.5 mA

Dimensions:

90 mm (3.6 in) x 60 mm (2.4 in) x 20 mm (0.8 in)

Weight:

44 g (1.5 oz)

- Defined as ±1 standard deviation from NIST traceable pressure reference. Includes non-linearity, hysteresis, repeatability, and calibration uncertainty.
- ** Defined as ±1 standard deviation from ideal analog output. Total analog output accuracy is the root sum square of digital accuracy, analog accuracy, and analog temperature dependence.



Weatherproof Enclosure and Pressure Port



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