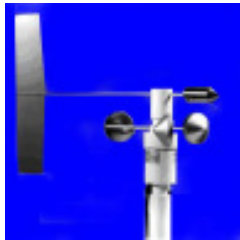


OWI-430 DSP WIVIS Optional Sensors



The OWI-430 DSP WIVIS can now serve as the data acquisition system for OSi wind, temperature/RH, and barometric pressure sensors to create a stand alone automated weather station. Never before has an automated weather station with present weather and visibility capability been this affordable. Simply install the OWI-430 and connect the optional sensors to the OWI-430 Power Supply and Junction Box. All sensor information is combined into the serial output of the OWI-430. No other data acquisition system is required.



Wind Sensor 2100-130

The 2100-130 is designed to operate within a temperature range of -30° to $+70^{\circ}$ C and with wind speeds up to 167 mph (75 m/s). Wind speed is measured using a sealed reed switch which provides a series of pulses at a rate proportional to wind speed. Aluminum cups are used for durability and strength.



Temperature/RH Probe 2100-110

The Model 2100-110 temperature humidity probe offers high accuracy and is designed for meteorological applications. The probe has separate 0 - 1 VDC linear outputs for temperature and humidity.



Best Value Pressure Sensor 2100-101-1

Low cost, accurate, and stable barometric pressure sensor. The glass fused ceramic capacitive sensing capsule features inherent thermal stability, and low hysteresis



High Accuracy Pressure Sensor 2100-101-2

The Model 2100-101-2 barometric pressure sensor is designed for use in environmental applications that require excellent accuracy, fast dynamic response, and long-term stability and reliability.

Wind Sensor Model 2100-130 Performance Specification

Wind Speed	
Range	0 – 165 mph (0 – 75 m/s)
Starting Threshold	0.9 mph (0.4 m/s)
Accuracy < 22.7 mph (10 m/s)	.25 mph, 0.1 m/s
Accuracy > 22.7 mph (10 m/s)	±1%
Wind Direction	
Range (Mechanical)	0-360°
Range (Electrical)	0-356
Starting Threshold	0.9 mph (0.4 m/s)
Accuracy	± 4°
Damping Ratio	.25

Temperature/RH Probe Model 2100-110 Performance Specification

Temperature	
Sensor Type	1/3 DIN RTD
Range	-40 - +60° C
Accuracy @ 23° C	± 0.2° C
Output	0 – 1 VDC
Humidity	
Sensor Type	Capacitive Humidity Sensor
Range	0 – 100%
Accuracy @ 23° C	<1.5%
Output	0 – 1 VDC

Barometric Pressure Sensor Model 2100-110-1 Performance Specification

Accuracy at 20° C	1.25 hPa
Compensated Range	0 to +55° C (+30 - +130° F)
Zero Shift	1% FS
Span Shift	1% FS
Long Term Stability	1.25 hPa per 6 months
Response Time	<10 mSec

Barometric Pressure Sensor Model 2100-110-2 Performance Specification

Accuracy at 20° C	± 0.5 hPa
Non-Linearity	± 0.4 hPa
Hysteresis @ 800 hPa	± 0.05hPa
Non-Repeatability @ 800 hPa	± 0.03 hPa
Resolution	.01 hPa
Response Time	<100 mSec



Optical Scientific Inc. (OSi)
2 Metropolitan Court Suite 6
Gaithersburg, MD 20877 USA
Ph. 301-963-3630
Fax 301-948-4674

website: www.opticalscientific.com
email: sales@opticalscientific.com



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