Sonic Weather Station

The **Sonic Weather Station** (SWS) is a complete high performance weather sensor using Met One Instruments' proven 2D sonic technology. This technology provides reference grade accuracy without moving parts and a built-in compass used for automatic alignment of the sensor. The temperature and humidity elements are integrated into an IP65 sealed module with a quick disconnect for ease of calibration in the field. The pressure element is precisely calibrated and temperature compensated for outstanding performance.

The SWS is designed for surface meteorological applications where accuracy and reliability matter.

Options:
– 10600 USB and power interface.

– WMO compliant external tipping bucket rain gauge connects simply and allows for correct installation and siting per industry guidelines.

– Solar radiation sensors are connected easily and integrate seamlessly into the SWS data record.

Sonic Weather Station

Features

- Wind Speed and Direction
- Temperature
- Humidity
- Barometric Pressure
- Rain and Solar Radiation Options
- Rugged all metal housing
- SDI12, RS232, RS485 Outputs
- Met One 7500 Protocol
- Compact 10cm Diameter

Specifications

Wind Speed

Range:	0 to 60 m/sec (0 to 134 mph)
Accuracy:	±0.5 m/sec or 5% of reading (1)
Resolution:	0.1 m/sec

Wind Direction

Range:	0° - 360°
Accuracy:	± 5° @ wind speed > 2.2 m/sec
Resolution:	1.0°

Temperature

Range:	-40°C to +60°C (-40°F to +140°F)
Accuracy:	±0.2°C (2)
Resolution:	0.1°C

Met One Instruments, Inc.

上海萨海测量技术有限公司
电话：021-6236 2960
传真：021-5235 2321
邮箱：sales@seasy-ist.com
网址：www.seasy-ist.com

Sonic Weather Station

Specifications (continued)

Relative Humidity

Range:	0 to 100%
Accuracy:	±3% (3)
Resolution:	1.0%

Pressure

Range:	600 to 1100 hPa
Accuracy:	±0.5 hPa (3)
Resolution:	0.1 hPa

Compass Option

Accuracy:	±2°
Resolution:	1°

Electrical

Measurement Rate Output:	1 Hz
Signal Output:	RS-232C, RS-485, SDI-12

8-36 VDC Supply, 40mA typical @ 12VDC, option dependent

Environmental

Temperature:	-40°C to +60°C (-40 to +140 °F)
Humidity:	0 to 100%

Notes:

1. Whichever is greater
2. 0 to 60C. +/-0.5C from -40C to 0C
3. At 25°C

REV OCT. 2013

Met One Instruments, Inc.

上海萨海测量技术有限公司
电话：021-6236 2960
传真：021-5235 2321
邮箱：sales@seasy-ist.com
网址：www.seasy-ist.com