

AIO 2 Sonic Weather Sensor

The **AIO 2 Sonic Weather Sensor** 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 AIO 2 is designed for surface meteorological applications where accuracy and reliability matter.

Accessory Options:

- 10600 USB and power interface
- WeatherView software for real time weather display and data recording on a PC
- Universal mounting hardware
- 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 AIO 2 data record.

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
- Compass for Automatic Direction Alignment



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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: $\pm 5^{\circ}$ (including Compass)
Resolution: 1.0°

Temperature

Range: -40°C to $+60^{\circ}\text{C}$ (-40°F to $+140^{\circ}\text{F}$)
Accuracy: $\pm 0.2^{\circ}\text{C}$ (2)
Resolution: 0.1°C

Relative Humidity

Range: 0 to 100%
Accuracy: $\pm 3\%$ (3)
Resolution: 1.0%

Pressure

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

Alignment Compass

Accuracy: $\pm 2^{\circ}$
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 $+60^{\circ}\text{C}$ (-40 to $+140$ °F)
Humidity: 0 to 100%

Notes:

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

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