



### Met One Instruments, Inc.

## 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.

#### **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
- Compatible with our Comet Cloud Modem 2

#### Options

- Model 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 sensor and/or tipping bucket rain gauge is connected easily and integrate seamlessly into the AIO 2 data record.

#### **Applications**

- Ambient Air Monitoring
- Environmental Surveys
- Government Network
- Health & Safety Monitoring







Instrument Expert Original factory packaging www.dorgean.com

#### **Specifications**

#### **AIO 2 Sonic Weather Sensor**

#### Wind Speed **Operating Range:** 0 to 75 m/sec (0 to 168 mph) Calibrated Range: 0 to 60 m/sec (0 to 134 mph) Accuracy: ±0.5 m/sec or 5% of reading<sup>(1)</sup> Resolution: 0.1 m/sec Sensor Type: Ultrasonic Threshold: < 0.2 mps Response Time: 1 second Wind Direction Range: 0° - 360° Accuracy: ± 5° (including Compass) Resolution: 1.0° Sensor Type: Ultrasonic Threshold: < 0.2 mps **Response Time** 1 second Temperature Range: -40°C to +60°C (-40°F to +140°F) Accuracy: ±0.2°C<sup>(2)</sup> Resolution: 0.1°C Sensor Type: Resistance type Response Time: 1 second **Relative Humidity** Range: 0 to 100% Accuracy: ±3%<sup>(3)</sup> Resolution: 1.0% Sensor Type: Capacitive / Solid State Response Time 1 Second Pressure Range: 500 to 1100 hPa Accuracy: $\pm 0.5$ hPa<sup>(3)</sup>, $\pm 0.3$ Optional (across entire operating range) Resolution: 0.1 hPa Sensor Type: Piezoresistive silicon Response Time: 1 Second **Alignment Compass** Accuracy: ±2° 1° Resolution: Electrical Measurement Rate Output: 1, 2, 5, 15, 30, 60 Hz (user selectable) Signal Output: RS-232C, RS-485, SDI-12 (specify at time of order) 8-36 VDC Supply, 40mA typical Power: @12VDC, option dependant Environmental 40°C to +60°C (-40 to +140 °F) Temperature: 0 to 100% Humidity: Notes:

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

Specifications are subject to change at any time.

# Met One Instruments, Inc.