



# Met One Instruments, Inc.

# **MSO Weather Sensor**

### The MSO is an integrated 5-parameter Weather Station. Wind Speed and Wind Direction are measured using conventional cup and vane techniques.

All other measurements are housed in a multi-plate naturally aspirated radiation shield to reduce solar radiation heating errors. The shield consists of a series of concentric white aluminum plates, which allow air to flow through the shield, while blocking direct solar rays.

The temperature sensor is a platinum RTD. Relative humidity is a based on our accurate, solid-state sensor designed for continuous exposure to adverse climates. The barometric pressure sensor is a robust piezo-resistive device, featuring high accuracy and long-term stability.

The MSO serial output can include data from an optional tipping bucket rain gauge. Output is a serial data stream every second, or upon command by data system

## Features

- Wind Speed and Direction
- Rugged All Metal Housing
- Temperature
- SDI12, RS232, RS485 Outputs
- Humidity
- Met One 7500 Protocol
- Barometric Pressure
- Integrated Mount and 50ft Cable
- Rain Options

## **Options**

- Model 10600 USB and power interface.
- WMO compliant external tipping bucket rain gauge connects simply and allows for correct installation and siting per industry guidelines.

# **Applications**

- Ambient Air Monitoring
- Environmental Surveys
- Government Networks







### **Specifications**

### **MSO Weather Sensor**

#### Wind Speed

Range: Accuracy: Resolution: Threshold :

#### Wind Direction

Range: Accuracy: Resolution: Threshold:

Temperature

Range: Accuracy: Resolution:

**Relative Humidity** 

Range: Accuracy: **Resolution:** 

#### Pressure

Range: Accuracy: Resolution:

Electrical

Measurement Rate Output: Signal Output:

### Environmental

Temperature: Humidity:

Notes: 1. At 25°C 0 to 50 m/sec (0 to 112 mph) ±2% of reading 0.1 m/s 1m/sec

0° to 360°

±5° 1.0°

1m/sec

-40°C to +60°C (-40°F to +140°F) ±0.4°C 0.1°C

0 to 100% ±4%<sup>(1)</sup> 1.0%

500 to 1100 hPa ±2 hPa<sup>(1)</sup> 0.1 hPa

1 Hz RS-232C, RS-485, SDI-12 8-36 VDC Supply, 10mA typical @ 12VDC, option dependent

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

Specifications are subject to change at any time.

