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

Wind Speed

Range:	0 to 50 m/sec (0 to 112 mph)
Accuracy:	±2% of reading
Resolution:	0.1 m/s
Threshold :	1m/sec

Wind Direction

Range:	0° to 360°
Accuracy:	± 5°
Resolution:	1.0°
Threshold:	1m/sec

Temperature

Range:	-40°C to +60°C (-40°F to +140°F)
Accuracy:	±0.4°C
Resolution:	0.1°C

Relative Humidity

Range:	0 to 100%
Accuracy:	±4%(1)
Resolution:	1.0%

Pressure

Range:	500 to 1100 hPa
Accuracy:	±2 hPa(1)
Resolution:	0.1 hPa

Electrical

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

Environmental

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

Notes:
1. At 25°C

Specifications are subject to change at any time.

Met One Instruments, Inc.

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