

Solar Series Portable Weather Station - 600



The Solar Series MWS 600 Portable Micro Weather Station features robust construction with industry first autonomous operations. Easily installed by one person in under 60 seconds, the MWS 600 provides cloud height measurement up to 10,000 feet with 10% accuracy as the world's smallest LIDAR ceilometer to support aviation applications. Integrated into a compact and wireless weather sensor package capable of reporting 28 different environmental monitoring parameters, the MWS 600 provides up to the minute data for: cloud height, temperature, barometric pressure, altimeter setting, wind speed/direction, lightning distance/frequency, visibility measurements, precipitation amount/type, GPS coordinates and visual imagery.

At only 3.8 pounds, the wireless MWS 600 includes a built-in cellular LTE-M modem for cloud based data logging, providing users 24/7 access to environmental data. The internal rechargeable batteries are powered by a built in solar array ensuring sustained operations without the need for external power. The battery pack provides 7 days autonomy in the event of little or no solar charging. The Solar Series MWS 600 is an ideal solution for airports and helipads in need of accurate and reliable environmental data without the cost of a complex AWOS system.

FEATURE BENEFITS

OFF GRID OPERATION

The Solar Series MWS 600 enables reliable operations in remote or temporary locations. With no need for external power or generators, the Portable Weather Station is truly autonomous.

SAFE & RELIABLE

The MWS 600 is designed with safety in mind. Built to ensure reliable operations in any type of weather, the Solar Series Portable Weather Station supports continuous, real-time weather reporting for ground and air operations, including incident meteorology for wildfire and disaster support with the ability to endure extended periods of harsh environmental conditions and rugged deployments.

LOW COSTS

With its unique mix of capabilities, the Solar Series Portable Weather Station provides an enhanced and unparalleled rugged system capability at a significantly reduced cost compared to legacy tactical meteorological systems.

COMPACT SIZE

The MWS 600 is easily transportable to any environment. Weighing 3.8 pounds and small enough to fit inside a backpack, the Solar Series Portable Weather Station can be readily deployed by hand or by air into any location for accurate weather sensing and data collection.

SPECIFICATIONS

GENERAL

MWS 600	Proven solution for weather observation and reporting to improve situational awareness
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MECHANICAL

Weight	1.72 kg (3.8 lb)
Dimensions	Height 21 cm (8.5 in.) Width 14 cm (5.5 in.) Diameter 14 cm (5.5 in.)
Mounting Hardware	1/4-20 threaded camera mount
Angular Tilt	Range: -90° to +90°

ELECTRICAL

Configuration	Integrated DC solar charging system
Available Accessories	Solar Cell Array by each side
Battery	Nickel-Cadmium Batteries
Input Options	Easy integration of other fielded sensors (CBRNE) External power (120VAC/230VAC) Laptop connectivity

COMMUNICATIONS

Integrated Two-Way Satellite Transmitter and Receiver	Transmits data to command and control elements via satellite and can receive commands for observing or image requests
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ENVIRONMENTAL

Operating Temperature	-40°C to +60°C (-40°F to +140°F)
Weather Protection	IP 67
Barometric Pressure	Range: 600 to 1110 mb
Humidity	Range: 0 to 100%
Precipitation	Range: 0 to 152 mm/hr (0 to 6 in/hr)
Wind Speed	Range: 0 to 28 m/s (0 to 55 knots)
Wind Direction	Range: 0° to 359°
Visibility	Range: 10 to 10,000 m (0 to 6.2 mi)
Dust Accumulation	Range: 0 to 100% (Quality Control Sensor)

COMPLIANCE

Compliance	Manufactured under ISO 9001 Quality Management System
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WARRANTY

Warranty	1 year
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