

Solar Series Portable Weather Station



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.

SPECS

Portable Micro Weather Station

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 3.2 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

MECHANICAL

Weight 1.45 kg (3.2 lb)

Dimensions Height 19 cm (7.5 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 Accesories 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

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

WARRANTY

Warranty 1 year

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