SPECS



Solar Series Portable Weather Station - 500



The Solar Series MWS 500 Portable Micro Weather Station is a lightweight, wireless, all-in-one Micro Weather Station designed for commercial applications and businesses that need meteorological data from a single, wireless package. The MWS 500 interprets, processes, and transmits precise meteorological data of 27 environmental parameters at predefined intervals using just its solar power system and rechargeable batteries. This is the only professional-grade sensor that can give complete data-centric picture of weather conditions in a rugged unit that is small enough to fit inside a backpack. The MWS 500 provides site imagery and accurate meteorological data without any wires or external devices, and it can be set up and start reporting in less than 60 seconds.

The Solar Series MWS 500 condenses 12 integrated sensors into a single compact package that is just 7.5 inches tall and weighs only 3.2 pounds. The built-in cellular LTE-M modem enables fully remote operations, and the solar power array and internal rechargeable batteries ensure sustained operations without the need for external power. The MWS 500 also comes standard with 360° panoramic imaging for a total view of the area without having to visit the sensor's site.



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SPECS

Portable Micro Weather Station

FEATURE BENEFITS

OFF GRID OPERATION

The Solar Series MWS 500 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 500 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 500 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 500	Proven solution for weather observation and reporting to improve situational awareness
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MECHANICAL

Weight	1.45 kg (3.2 lb)
Dimensions	Heigh 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
	inage 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 26 m/s (0 to 50 knots)	
Wind Direction	Range: 0° to 359°	
Dust Accumulation	Range: 0 to 100% (Quality Control Sensor)	
Lighting Distance	Range: 0 to 40 km (0 to 25 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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