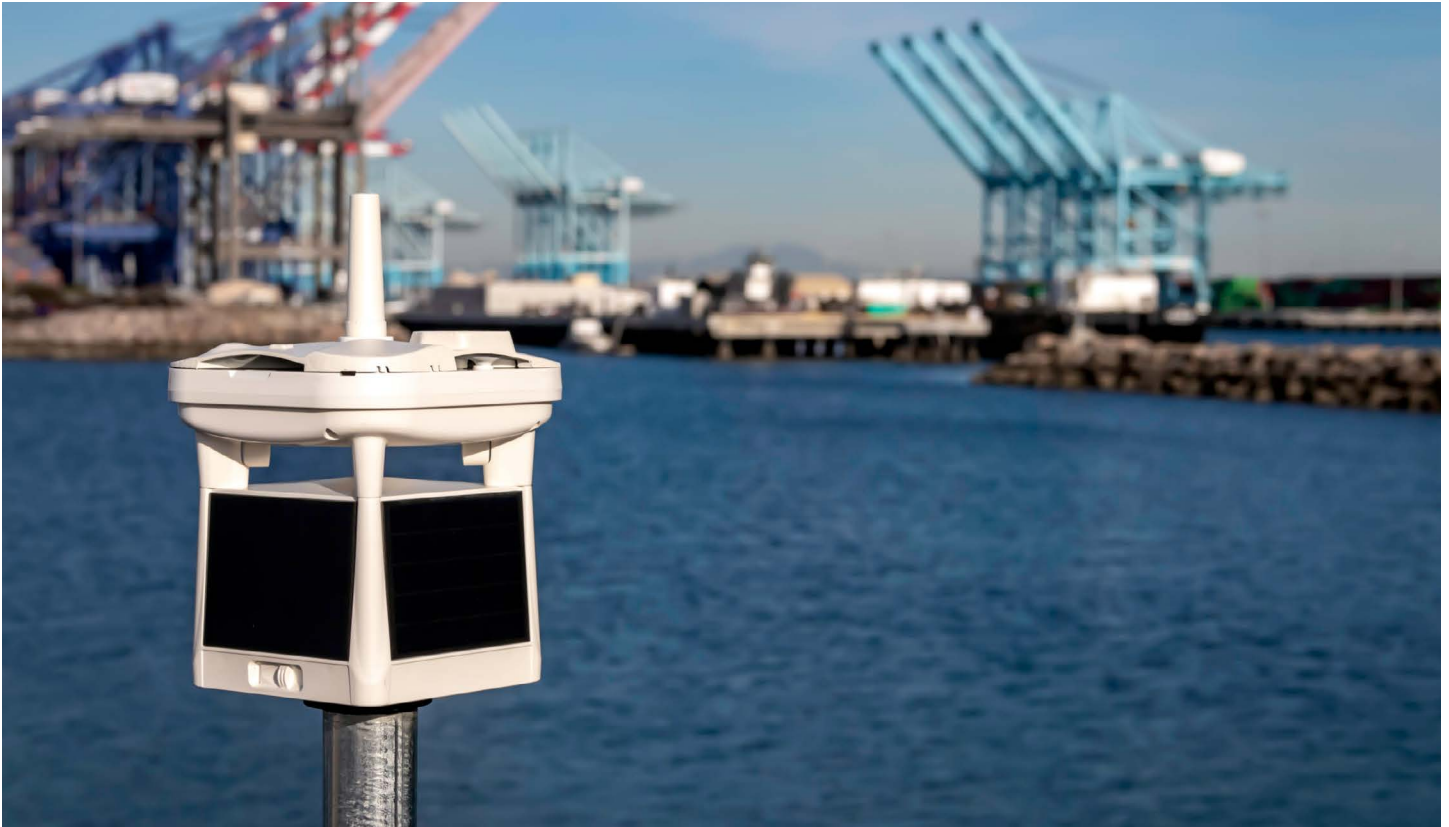


Solar Series Portable Weather Station - 400



The Solar Series MWS 400 Portable Micro Weather Station is a lightweight, wireless, all-in-one Micro Weather Station that delivers precise meteorological data. As a completely wireless unattended ground sensor (UGS), this latest innovation in weather sensing technology combines cloud-based data logging, communications, and solar power system with rechargeable batteries to autonomously gather and report 20 environmental parameters. Small enough to fit inside a backpack, the MWS 400 can be installed or placed in nearly any environment for continuous, weather reporting in real time.

With a self-locating GPS and built-in compass, the MWS 400 can be set in any orientation and provide even more accurate measurements of wind speed and direction than any other all-in-one solution on the market. This station also includes a solar array and internal rechargeable batteries for sustained operations, as well as a built-in cellular LTE-M modem for reliable data transmission and fully remote, autonomous processing. Compared to other off-the-shelf weather sensors for commercial applications, the MWS 400 provides the most highly integrated, reliable, and easy-to-use weather-sensing system in one professional-grade, rugged, and wireless package for businesses and communities of any size.

FEATURE BENEFITS

OFF GRID OPERATION

The Solar Series MWS 400 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 400 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 400 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 400

Proven solution for weather observation and reporting to improve situational awareness

MECHANICAL

Weight

1.45 kg (3.2 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

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°

Dust Accumulation

Range: 0 to 100% (Quality Control Sensor)

Lighting Distance

Range: 0 to 40 km (0 to 25 mi)

COMPLIANCE

Compliance

Manufactured under ISO 9001 Quality Management System

WARRANTY

Warranty

1 year