

## Solar Series Portable Weather Station

COMPLIES WITH ICAO ANNEX 14, VOL. 1, PART 1, SECTION 3.4. & MIL-STD-810G / MIL-STD-461F / FCC PART 15



The Solar Series Portable Micro Weather C600 Sensor features robust construction and autonomous operation. The C600 installs by one person in about 60 seconds. The C600 provides cloud height measurement to support aviation applications. One of the world's smallest LIDAR ceilometers is integrated into an already compact and wireless weather sensor package that reports 28 different environmental monitoring parameters. These include temperature, barometric pressure, wind speed/direction, lighting distance/frequency, visibility measurements as well as cloud heights up to 10,000 feet within 10% accuracy. integrated tower and power system of the Solar Series S248 only requires one mounting point saving time and cost.

This compact, wireless unit weights 3.8 pounds. The built-in cellular LTE-M modem enables cloud based data logging so users always have access to environmental data at any time. The internal rechargeable batteries are charged by built in solar array ensures sustained operation without the need for external power. The battery pack was designed to provide 7 days autonomy in the event of little/no solar charging. The Solar Series C600 is the perfect solution for small airports or helipads that need environmental data delivered accurately and reliably but without the financial investment of a AWOS system.

# SPECS

## Solar Series Portable Weather Station

### FEATURE BENEFITS

#### OFF GRID OPERATION

The Solar Series Portable Weather Station enables reliable operations in remote or denied locations. The system does not rely on external power, or diesel generators. As a result, it can be truly off-grid.

#### SAFETY & RELIABLE

The Solar Series Portable Weather Station is designed with safety in mind. Built to ensure reliable operation in any weather. Can be hand or air emplaced and 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 Solar Series Portable Weather Station is easily transportable to any environment. It is small enough to fit inside a backpack, With his 3.2 pounds, it can be readily deployed by hand or by air into any location for accurate weather sensing and data collection.



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# SPECIFICATIONS

## GENERAL

<b>Portable Weather Station</b>	Proven solution for weather observation and reporting to improve situational awareness
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## MECHANICAL

<b>Weight</b>	1.45 kg (3.2 lb)
<b>Dimensions</b>	Height 19 cm (7.5 in.) Width 14 cm (5.5 in.) Diameter 14 cm (5.5 in.)
<b>Mounting Hardware</b>	1/4-20 threaded camera mount
<b>Angular Tilt</b>	Range: -90° to +90°

## ELECTRICAL

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

## COMMUNICATIONS

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

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

## WARRANTY

<b>Warranty</b>	1 year
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