MWS®-C400

Micro Weather Sensor

The Professional-Grade, All-In-One Weather Sensor with Cellular LTE-M Built for Commercial Applications

Key Features

- Wireless Weather Sensing in an Elegant, Compact Package
- No Extra Equipment Needed
- Easy 60-Second Installation
- Autonomous Operations
- Two Expansion Ports
- Portable and Rugged

Weather Data Reported

- Temperature
- Barometric Pressure
- Altimeter Setting
- Relative Humidity
- Wind Speed
- Peak Wind Speed
- Wind Direction
- Dust Accumulation
- Compass Reading
- Precipitation Amount / Type
- Lightning Distance
- Lightning Frequency

Other Data Reported

- GPS Longitude and Latitude
- GPS Elevation
- Compass Orientation
- Angular Tilt



The MWS®-C400 is a lightweight, wireless, all-in-one Micro Weather Sensor that precisely and reliably delivers meteorological data. As a completely wireless unattended ground sensor (UGS), this latest innovation in weather sensing technology from Intellisense Systems combines cloud-based data logging, communications, and a solar power system with a rechargeable battery pack to autonomously gather and report more than 20 environmental parameters. Small enough to fit inside a backpack, the C400 can be installed or placed in nearly any environment for weather reporting in real time.

The engineers at Intellisense set out to create a wireless, reliable, and cost-effective weather sensor for businesses and communities of any size, and they achieved that with the C400. With a built-in GPS and compass, the C400 offers more accurate measurements of wind speed and direction than any other all-in-one weather station on the market today. This sensor also includes solar panels and an internal rechargeable battery pack for sustained operations, as well as a cellular LTE-M modem for reliable and fully remote data transmission and autonomous processing.



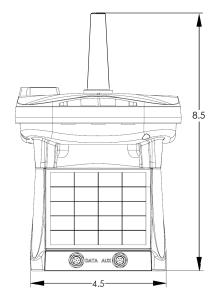
Compared to other off-the-shelf weather sensors for commercial applications, the C400 provides the most highly integrated, reliable, and easy-to-use weather-sensing system in one professional-grade, rugged, and wireless package.

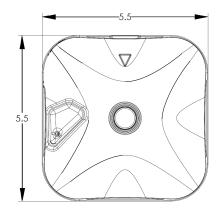


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At just 8.5 inches tall and weighing only 3.2 pounds, the C400 can easily be carried to and set up in just about any location. With a built-in compass and GPS, it can be installed or placed in the most remote areas for accurate weather sensing and data collection.





CONTROLS &

The controls on the C400 are simple, consisting of a single power switch. The sensor will automatically configure itself for operation within 60 seconds of start-up. The two expansion ports also enable connectivity to laptops, external power sources, and other remote sensors.

ACCESSORIES

To serve a variety of needs, Intellisense offers many accessories for the C400, including mounting solutions, carrying cases, and extension cables up to 500 feet in length.

For a complete catalog of weather sensor accessories, please visit intellisenseinc.com.

SEN	Temperature	Range: -40 to 60°C (-40 to 140 °F) Resolution: 0.1°C Accuracy: ± 0.2°C at 25°C (77°F)
SENSOR	Barometric Pressure	Range: 600 to 1110 mb Resolution: 0.01 mb Accuracy: ± 0.5 mb at 25°C (900-1100 mb)
SPECIFICATIONS	Humidity	Range: 0 to 100% Resolution: 1% Accuracy: ± 2%
	Precipitation	Range: 0 to 152 mm/hr (0 to 6 in/hr) Resolution: 0.25 mm/hr (.01 in/hr) Accuracy: ± 2.5 mm/hr (0.1 in/hr) or 10% (whichever is greater)
	Wind Speed	Range: 0 to 28 m/s (0 to 55 knots) Resolution: 0.5 m/s (1 knot) Accuracy: ± 3%
	Wind Direction	Range: 0° to 359° Resolution: 1° Accuracy: ± 5°
	Angular Tilt	Range: -90° to +90° Resolution: 0.1° Accuracy: ± 1°
	Dust Accumulation	Range: 0 to 100% (Quality Control Sensor) Resolution: 1% Accuracy: ± 10%
	Lightning Distance	Range: 0 to 40 km (0 to 25 mi) Resolution: 3.2 km (2 mi) Accuracy: Varies

UNIT PROPERTIES	Weight	1.45 kg (3.2 lb)
	Dimensions	H: 21 cm (8.5 in) W: 14 cm (5.5 in) D: 14 cm (5.5 in)
2 P	Operating Temperature	Minimum: -40°C (-40°F) Maximum: +60°C (+140°F)
Ë	Mounting Hardware	1/4-20 threaded camera mount
Sall	Power Management	Solar Cell Array and Onboard Nickel-Cadmium Batteries Continuous operation and the ability to endure extended periods of harsh environmental conditions
	Communications	Integrated LTE-M Cellular Modem Transmits data to command and control elements via satellite and can receive commands for observing or image requests
	Expansion Port	Threaded M8 Serial Connector Rated to IP67 Waterproof Standards Allows new capabilities to be added and easy integration of other fielded sensors, including external power and laptop connectivity as well as easy integration of other field sensors
	Compliance	Manufactured under ISO 9001 Quality Management System

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