

Orion Nomad™

Portable Weather Station



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Orion Nomad™ Portable Weather Station

Specifications

Wind Speed: Ultrasonic

Range: 0-115mph
Accuracy: ± 0.7 mph
Resolution: 1 mph
Units Available:
knots, mph, km/hr, m/s

Wind Direction: Ultrasonic

Azimuth: 0-360°
Accuracy: $\pm 2^\circ$
Resolution: 1°
Units Available: ° Azimuth

Temperature:

Range: -60 to 140°F
Accuracy: $\pm 0.5^\circ\text{F}$ at 68°F
Resolution: 0.1°F
Units Available: °F, °C

Relative Humidity:

Range: 0 - 100%
Accuracy: $\pm 3\%$ (0-90%),
 $\pm 5\%$ (90-100%)
Resolution: 1%
Units Available: %RH

Barometric Pressure:

Range: 17.50 to 32.50 InHg
Accuracy: ± 0.015 InHg at +32
to 86°F; ± 0.03 InHg at -60
to 140°F
Resolution: 0.1 InHg
Units Available: Kpa, mbar, InHg

Precipitation: Impact

Range: cumulative
Collection Area: 602cm
Accuracy: $\pm 5\%$
(spatial variations may exist)
Resolution 0.01 in. (0.254mm)
Units Available: mm, inches

Ordering Information:

9530-B-1 Standard system with WeatherMaster Software
9530-C-1 Standard system with Weather Display Console
9530-D-1 Standard system with Weather Display Console and
WeatherMaster Software



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Tripod Sensor Mast: Powder coated heavy-gauge steel; three removable legs with locking pins. Telescoping extension elevates to 10 feet overall maximum height. Includes: Guy-wire ring collar, guy-wires, grounding stakes, compass for north orientation, and heavy duty canvas transportation bag.

Transportation Case:

Rugged polyethylene carrying case with roller wheels. Foam padded interior protects sensitive equipment. Keeps all components in a constant state of readiness.

Battery Power System with Charger:

Two 12 volt sealed lead acid (SLA) gel batteries provide 48 hours of operating time each. Quick-charging battery system.

Weather Display Console: LCD touch-screen displays weather data and two configuration screens - all measured and calculated weather parameters, wind rose, daily max/min data and 24-hour trend graphs. (19" rack mount available)



2.4 GHz Wireless Transceivers:

Provides remote capability within two (2) mile line-of-sight range. FCC approved and license free.



WeatherMaster™: Professional weather monitoring and database software can automatically interface with CAMEO/ALOHA for HazMat applications such as plume modeling. Capable of networking multiple weather stations with one centralized computer. Multiple alarm features alert user to critical weather parameters.

Standard System Includes:

- Sensor Module Orion 510 Transmitter housed in a Self-Aspirating Radiation Shield with:
 - Temperature Sensor
 - Relative Humidity Sensor
 - Digital Barometer
 - Ultrasonic Wind Direction/Speed
 - Impact Rain Sensor
- Heavy-duty polyethylene transportation case, foam lined with external wheels
- Two 2.4 GHz wireless transceivers, two mile range
- Sealed gel battery system (two 12-volt batteries, 48 hours each with charger)
- 10-ft tripod with telescoping mast, tiedown kit, compass, and mounting hardware
- Heavy-duty canvas tripod transportation bag with tote straps
- Orion Data Manager Software
- Comprehensive User Manual