

# Orion Nomad™

Portable Weather Station



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**Columbia**  
Weather Systems

# Orion Nomad™ Portable Weather Station

## Specifications

**Wind Speed:** Ultrasonic  
Range: 0-115mph  
Accuracy:  $\pm 3\%$  at 10 m/s  
Resolution: 1 mph  
Units Available:  
knots, mph, km/hr, m/s

**Wind Direction:** Ultrasonic  
Azimuth: 0-360°  
Accuracy:  $\pm 3^\circ$   
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:  $\pm 0.015$  InHg at +32  
to 86°F;  $\pm 0.03$  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: 0.001in. (0.0254mm)  
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

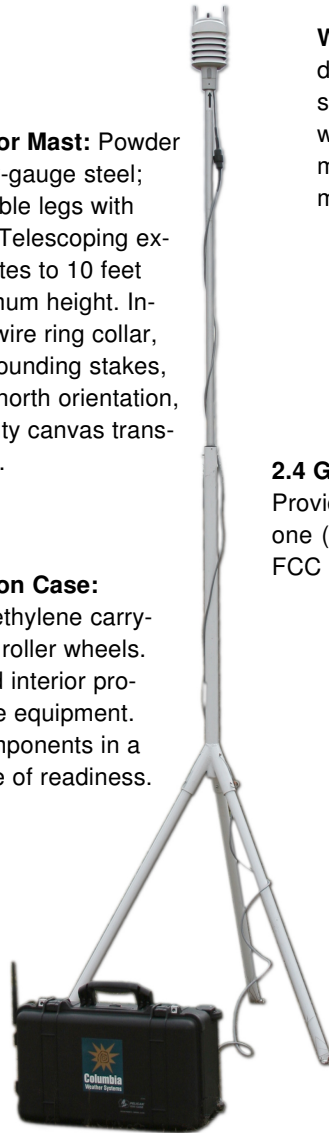


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**Tripod Sensor Mast:** Powder coated heavy-gauge steel; three removable legs with locking pins. Telescoping extension elevates to 10 feet overall maximum height. Includes: Guy-wire ring collar, guy-wires, grounding stakes, compass for north orientation, 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 one (1) 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:

- Orion Sensor Module 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, one 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