

Pegasus-EX FlyAway Kit™

A Portable Capricorn 2000EX™ Weather Station



When wind direction and speed measurements are critical, the **Pegasus-EX** offers a complete weather monitoring solution for portable operations. For aviation, research, HazMat, pollution control, and other environmental monitoring requirements, the Pegasus EX's wind sensor offers two-degree wind direction resolution and up to 160 mph wind speed range. Standard sensors include wind speed and direction, temperature, barometric pressure and humidity. (Solar radiation and rainfall sensors optional.)

Use WeatherMaster™ software to calculate dew point, heat index, wind chill, density altitude and automatically integrate weather data into Cameo/Aloha HazMat software.

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Specifications

Temperature: Digital semiconductor
Accuracy: $\pm 0.9^{\circ}\text{F}$ from $+14^{\circ}$ to 185°F
 $\pm 3.6^{\circ}\text{F}$ from -55° to 257°F
Resolution: 0.01°F

Barometric Pressure: Silicon shear stress strain gauge; temperature compensated and calibrated
Accuracy: ± 0.03 in. Hg over range
Range: 27.00 to 33.96 in. Hg
Resolution: 0.01 in. Hg

Wind Speed: Sealed reed switch
Accuracy: ± 0.25 mph from 0 to 23 mph, $\pm 1\%$ from 24 to 160 mph
Range: 0 to 160 mph (139 knots)
Resolution: 1 mph
Starting Threshold: 0.9 mph

Wind Direction: Precision Potentiometer
Resolution: 2 degrees
Range: 0 to 360 degrees
Accuracy: ± 4 degrees

Relative Humidity: Capacitance
Accuracy: $\pm 3\%$ (or better) from 10 to 90% RH
Temperature Effect: $< \pm 1.5\%$ RH
Stability: $\pm 2\%$ RH over 2 years
Reporting Resolution: 1% RH

Rainfall (Optional): Tipping bucket
Accuracy: $\pm 1\%$ at 2 in./hr or less
Resolution: 0.01 inch

System Details

Tripod Sensor Mast: Made of powder coated heavy-gauge steel for added protection against the elements. The mast has 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.

Weatherproof Enclosure: Houses the Control Module, internal barometer, and 2.4 GHz wireless transceivers. All sensor cables and power cords have external weatherproof quick connectors for rapid set up and take down under austere conditions. Sensor mast mounting hardware included.

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 32 hours of operating time each. Quick-charging battery system keeps a fresh battery in supply. Batteries come with a plastic carrying case to protect against weather elements and contaminants.

Weather Display Console: LCD touch-screen displays weather data with 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: Gives the system remote capability within two (2) mile line-of-sight range. FCC approved and license free.

OR

WeatherMaster™: Professional-grade software specifically designed to operate with Pegasus and integrate weather data into other software packages, such as Cameo/Aloha. Capable of networking multiple weather stations with one centralized computer. Multiple alarm features alert user to critical weather parameters.

Systems:

- 8161-B-1 Standard System with WeatherMaster™ Software
- 8161-C-1 Standard System with Weather Display Console
- 8161-F-1 Standard System with WeatherMaster™ and Weather Display Console

Pegasus-EX Standard System Includes:

- Capricorn 2000EX™ Control Module, digital barometer, wireless transceiver, and battery power cable
- Weatherproof enclosure with quick-connect sensor plug-in jacks
- Temperature probe with waterproof cable connector
- Relative humidity sensor with waterproof cable connector
- Self-aspirating radiation shield for temperature and humidity sensors
- Wind speed and direction sensor with quick-connect mounting hardware
- Two 2.4 GHz wireless transceivers - two mile range
- Sealed gel battery system (two 12-volt batteries, 48 hours each with charger)*
- 10ft tripod with telescoping mast, tiedown kit, compass, and mounting hardware
- Heavy-duty polyethylene transportation case - foam lined with external wheels
- Heavy-duty canvas tripod transportation bag with tote straps

* Other optional battery capacities are available.