



WeatherPak[®]

Rapidly Deployable Weather Station



WeatherPak portable weather stations are professional quality instruments designed to be rapidly deployed near the hot-zone with no tools required for assembly. The WeatherPak measures wind speed, wind direction, temperature, humidity, and barometric pressure. The embedded RAELink modem automatically communicates in real-time with a PC based host controller running ProRAE Guardian Software. The WeatherPak's rugged design meets military grade standards and can be used in harshest environments.

- **WeatherPak is easy to deploy and simple to use**
- **WeatherPak is designed for rugged environments and rough handling**
- **Deployable in less than one minute**
- **Integration of meteorological data with gas sensor readings**

KEY FEATURES

Versatile

- Automatically updates PlumeRAE software through ProRAE Guardian – Real-Time integration of wind data and stability class
- Measures wind speed and direction, air temperature, humidity and barometric pressure (includes option for solar radiation)

Easy to Use

- Can be deployed by single person wearing protective gear without using tools
- Self-Aligning Electronic Compass preset for specific regions

Durable

- Built of Mil-Spec grade aluminum, which is extremely rugged and resistant to corrosion
- Water immersible (for decontamination, etc.)
- 18 hrs continuous run-time from nine "D" cell alkaline batteries located in the Tripod

APPLICATIONS

- Hazardous Material Response
- Oil & Gas Fence Line Monitoring
- Civil Defense
- Environmental
- Industrial Safety

SPECIFICATIONS

Sensors

Ultrasonic Wind Monitor

Wind Speed	Range: 0 to 60 m/s (130 mph) Survival: 100 m/s (220 mph) Start Speed: 0.01 m/s (0.02 mph)
Wind Direction	Range: 360° (No dead band) Survival: 100 m/s (220 mph) Threshold: 0.01 m/s (0.02 mph)

Temperature/Relative Humidity

Operational Range	-4° C to 50° C (-40° F to 122° F)
Accuracy	±0.2° C over full range (0.36° F)
Resolution	0.5° C (1.0° F)

Barometric Pressure

Operational Range	-50°C to +60°C
Accuracy	0.2 hPa at 25°C 0.3 hPa from -50°C to 60°C
Resolution	0.1 hPa reported

Compass

Accuracy	±1.0°
Resolution	1°
Tilt Limit	±45°

Wireless

Transmission Frequency	ISM 900MHz
Transmission Distance	2 miles (3km)

Mechanical

Size	4" x 22.5" (10.3 cm x 57.2 cm) (base unit without wind monitor)
Weight	8 lbs (3.6 kg) (base unit without wind monitor)
Carry Weight	ABS Carry Case with WeatherPak: 24 lbs. (10.9 Kg) Canvas Tripod Bag: 30 lbs. (13.6 Kg)
Material	6061-T6 aluminum, 316SS hardware, O-Ring sealed Mil-Spec connector, thermo plastic resin coated
Set-up Time	60 seconds, from carry case to full operation

Environmental

The WeatherPak meets or exceeds exposure to the following environmental tests per MIL-STD-810D as follows:

Temperature	Operation from -40° C to 70° C (-40° F to 160° F)
Pressure	Operation from 800 to 1100 mBar
Humidity	10 day exposure with 100% RH
Rain	20 inches per hour
Shock/Vibration	Survival of 6 ft drop

*Specifications are subject change



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