

WEATHERPAK[®]

**Professional
Weather
Stations**

**For
Emergency
Responders**



COASTAL
ENVIRONMENTAL SYSTEMS

Monitor Your World

WEATHERPAK® MTR

On-site, real-time weather data for chemical, biological and radiological response.

The most rugged weather station available, WEATHERPAK® is impervious to airborne chemicals and designed to be deployed directly in the hot zone. A WEATHERPAK® can be set up in less than 60 seconds, without tools, by one person wearing full protective gear. Tested to and passed MIL-STD-461C for radio interference and power surges, and MIL-STD-810F for severe conditions. WEATHERPAK® will survive a 6-foot (1.8 m) drop to concrete and withstand a decontamination scrub down and many other environmental hazards.

WEATHERPAK® MTR incorporates all of the features which make WEATHERPAK® the number one choice of professional responders, and much more:

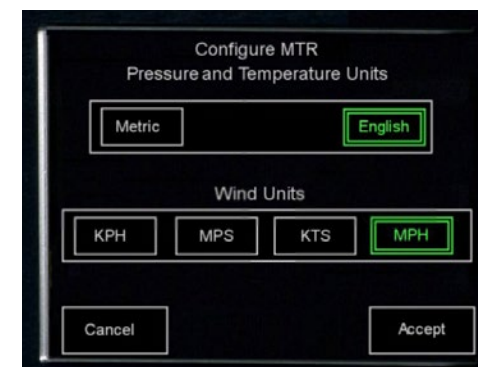
- **SmartDetect™**—Firmware that automatically networks and displays data from up to twenty additional WEATHERPAK®s.
- Integrated GPS—Provides GPS data for your location and location information for additional WEATHERPAK® MTRs.
- Automatically updates CAMEO®/ALOHA® and most other chemical plume modeling software.
- Ultrasonic Wind Sensor—A no-moving-parts wind sensor which is rugged and extremely accurate, even at very low wind speeds. The wind sensor requires no calibration.
- The optional Background Gamma Radiation Sensor measures the relative amount of background gamma radiation present. The sensor would allow emergency responders to identify the presence of a potential hazard.
- Full Color Display with touch screen.



WEATHERPAK® MTR Receiver/Display

The touch screen on the MTR display provides access to multiple information screens that display the weather data in a variety of ways...

The full color WEATHERPAK® MTR Receiver/Display features touch screen access to data from up to twenty additional WEATHERPAK®s. Layered touch screens provide weather data and current status for the Active WEATHERPAK® and all other WEATHERPAK®s detected in the vicinity by Coastal's **SmartDetect™** automatic networking firmware. The Receiver/Display is constructed of ruggedized aluminum and built to withstand vehicle vibrations.

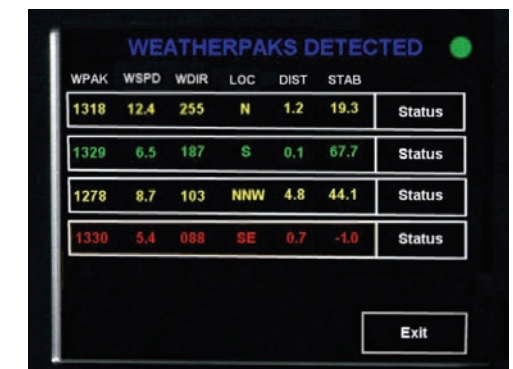


When the MTR is first powered on, new Configuration Screens allow the user to easily configure the way data is viewed, such as English/Metric units and latitude/longitude formats.

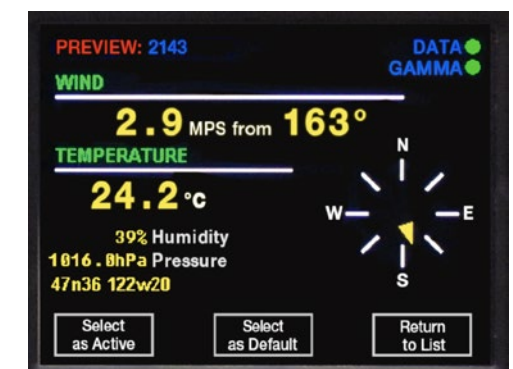


The Active Screen is the most important and most frequently used information screen. It displays the data received from the WEATHERPAK®.

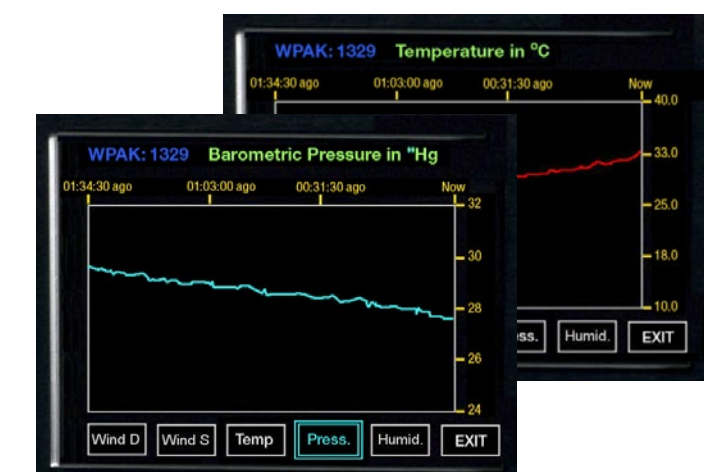
Monitor Your World



The Detected Screen displays data from other WEATHERPAK®s detected in the vicinity, in a columnar fashion.



The Preview Screen displays data from any station listed on the WEATHERPAK®s Detected Screen. It allows the operator to view the status of that system and change its Active or Default status.



Graph Screens track data from each WEATHERPAK® MTR sensor over time.

The Status Screen displays the unique serial number of the WEATHERPAK® and other important information.

WEATHERPAK® TRx2

The WEATHERPAK® TRx2 offers the performance, ruggedness and reliability you would expect from a WEATHERPAK®, but at a reduced price.

The WEATHERPAK® TRx2 features an ultrasonic no-moving-parts wind sensor (never needs calibration), professional grade air temperature and relative humidity sensors, and an electronic compass.

The weather data is gathered, processed in the weather station, and then transmitted via UHF radio to a back-lit LCD display and your PC to automatically update plume models (CAMEO®/ALOHA®, etc.).

WEATHERPAK® TRx2 can be deployed in less than one minute, by one person—without tools.

The nature of Hazmat response dictates that equipment be easy to deploy and operate. It must withstand rough handling and harsh conditions, be accurate and reliable, and not create additional risks.

The WEATHERPAK® is the only weather station that will both meet the requirements of the Hazmat/WMD response mission and withstand the rigors associated with this mission for many years to come.

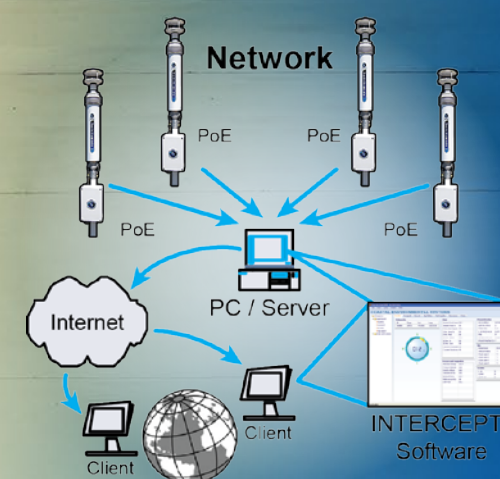


WEATHERPAK® EOC NETWORK

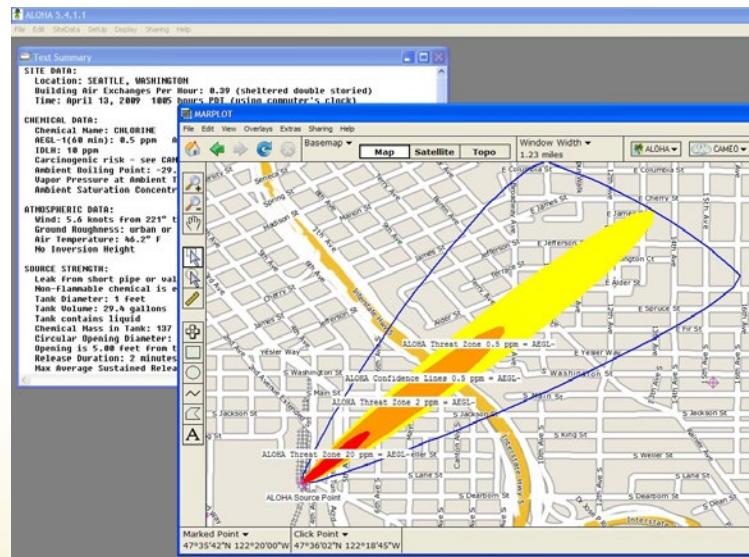
The latest addition to the product line, the WEATHERPAK® EOC fixed-network weather station is uniquely suited for emergency management applications.

WEATHERPAK® EOC is easy to install, easy to operate, withstands severe conditions and is accurate and reliable. Standard sensors include an ultrasonic “no-moving-parts” wind sensor and air temperature. Built-in GPS and an electronic compass that automatically aligns to True North eliminate alignment errors during installation. Relative humidity, barometric pressure, and background gamma radiation sensors can be added to meet your requirements.

- Single integrated device – fast, easy installation
- PoE (Power over Ethernet) – one cable power and data retrieval
- Built-in GPS and electronic compass – automatically aligns to True North
- On-site real-time weather data
- No-moving-parts ultrasonic wind sensor needs no periodic calibration
- Designed to meet MIL-STD-461E for EMI interference and MIL-STD-810F for severe environmental conditions
- Automatically feeds data into dispersion software



The Critical Role of the WEATHERPAK®...



WEATHERPAK® automatically updates plume modeling software with accurate, site-specific weather data.

Hazmat weather stations are typically used in two ways: as a rapid response tool following the release of hazardous materials, or for routine monitoring of strategic infrastructure (e.g. chemical manufacturing or storage facilities, oil refineries, water treatment plants, or power plants).

In either case, site-specific weather data can be viewed on the display screen and simultaneously fed to plume dispersion software (CAMEO®/ALOHA®, PEAC®, COBRA®, etc.). These programs graphically display the chemical plume overlaid on a map of the immediate vicinity. Incident command can now make decisions based upon accurate data—not guesswork.

Features Common to All Portable WEATHERPAK® Weather Stations

All WEATHERPAK®s are high-quality, professional-grade tools.

There are a variety of portable weather stations available on the market, and they differ widely in their design and construction. Around the world, the WEATHERPAK® is trusted by emergency response personnel for its performance in the most critical operational situations and in the harshest environmental conditions.

- Automatically updates CAMEO®/ALOHA® and other chemical plume modeling software.
- Computes five-minute running averages and Wind Stability class as required by EPA CAMEO®/ALOHA® calculation.
- Designed for use in the hot-zone. Internal UHF radio relays data to plume model. Self-contained system has no cables or connectors. Deployable by one person wearing protective gear in less than one minute—without tools.
- Automatically aligns to True North. Internal electronic compass eliminates alignment errors.
- No plastic or PVC structural components. The WEATHERPAK® is designed to withstand harsh environments, rough handling, and to provide many years of reliable service. Built of a special Mil-Spec grade aluminum, which is extremely rugged and resistant to corrosion, the WEATHERPAK® will survive a six foot (1.8 m) drop to concrete and is water immiscible (for decontamination, etc.).
- Designed to intrinsically safe standards. Non-sparking aluminum and intrinsically safe electronics are your assurance that the WEATHERPAK® will not create additional risks. In addition, the entire system is protected against RF and EMI vehicle emissions. Tested to and passed MIL-STD-461C for radio interference and power surges, and MIL-STD-810F for severe conditions.

Measures ...

Wind Speed & Direction, Temperature, Humidity and Barometric Pressure every second.

WEATHERPAK®

Then Computes ...

The values necessary to properly update the plume model as required by the U.S. EPA.

The Data Is ...

Transmitted to your computer from up to five miles line-of-sight by way of the internal UHF radio.

WEATHERPAK® — The #1 choice of Emergency Response Personnel for more than 30 years!

The WEATHERPAK® weather station is a professional quality instrument designed specifically for use by emergency response personnel.

In the mid-1980s, NOAA (National Oceanographic Atmospheric Administration) came to Coastal with the prototype of their plume dispersion modeling software, ALOHA®. They asked us to build a portable weather station for hazmat response.

Since that time, Coastal has become the leading manufacturer of portable hazmat weather stations and has built an impressive list of satisfied customers. The WEATHERPAK® is in use in every state in the U.S., in most major cities in North America, in all branches of the U.S. military, the U.S. Department of Homeland Security, and in militaries and emergency management agencies around the world.






A list of customers may be viewed on our website at www.coastalenvironmental.com/coastal-customers.shtml.

Contact your Coastal Environmental Systems representative:
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marketing@coastalenviromental.com



WEATHERPAK®

Specifications

	WEATHERPAK® MTR	WEATHERPAK® TRx2	WEATHERPAK® EOC
Sensors			
Wind Speed & Direction	Ultrasonic (No Moving Parts) 	Ultrasonic (No Moving Parts) 	Ultrasonic (No Moving Parts) 
Air Temperature	Yes	Yes	Yes
Relative Humidity	Yes	Yes	Option
Barometric Pressure	Yes		Option
GPS	Yes		Yes
Background Radiation (Gamma)	Option		Option
Display Type			
	5.7" Color TFT Flat Panel 	Liquid Crystal 	
Communications			
	UHF Radio (Spread Spectrum Optional)	UHF Radio (Spread Spectrum Optional)	Ethernet/LAN
Mounting			
	3 Meter Tripod	3 Meter Tripod	Permanent
Power¹			
	10 D-Cell	9 D-Cell	120 VAC
Benefits			
Self-Aligning Compass	Yes	Yes	Yes
Electronics Hermetically Sealed/ Submersible for Decontamination	Yes	Yes	Yes
Rugged – Meets Environmental MIL-STD-810F & 461C	Yes	Yes	Yes
Hot Zone Deployable	Yes	Yes	N/A
SmartDetect™ Multiple WEATHERPAK® Recognition and Display	Yes		

¹ 9 or 10 D-Cell batteries provide enough power for 2-3 days continuous operation; other options are available.



Vehicle Mount Options

All WEATHERPAK®s can be vehicle mounted. Vehicle mount options include a side-mount, collapsible telescoping mast (left), and a roof-mount, telescoping mast (right).



COASTAL
ENVIRONMENTAL SYSTEMS

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