Quick Deploy Remote Automated Weather Station (QD RAWS)

On-site weather monitoring for prescribed burning, wildfire, and emergency response applications.

The Quick Deploy Remote Automated Weather Station (QD RAWS) is the fire community's most widely used weather station for prescribed burns and temporary monitoring applications. This portable system can be set up completely in 15-minutes by one person, with no tools and no technical training.

THE ONLY GOES AND GPS ANTENNA YOU'LL EVER NEED

The EON2 CS2 requires no assembly, and no aiming in most locations. Rugged by design, it is completely sealed for marine environments and dome-shaped for superior ice/snow shedding. Smaller, lighter and more durable than a Yagi.

KEY FEATURES

- Durable and rugged for better reliability
- Does not require aiming in most locations
- Cabinet top mounting eliminates exposed wiring

SECURE DEPLOYMENT IN ANY TERRAIN

- The sturdy tripod creates a low center of gravity, yet keeps the data logger—what you interact with—at eye level.
- Our unique "lilypad" feet and adjustable, telescoping legs provide the flexibility to deploy the QD wherever you need it.
- Hinged feet allow placement on uneven surfaces.
- The QD can withstand wind gusts of 100mph (160kmh).

INTELLIGENT POWER MANAGEMENT

It's not enough to be tough and durable. When you count on your data, a weather station has to collect and transmit even in adverse conditions.

- Microprocessor-controlled power management system maximizes battery life

- Monitors solar panel output and optimizes charging voltage according to ambient temperature

- Temporarily suspends power-hungry communications if low battery status is detected—but keeps recording data

- Provides continuous, trouble-free operation even in areas where there is minimal sunlight at times

CUSTOMIZED TO YOUR NEEDS

The QD RAWS typically includes wind speed & direction sensors, temperature/humidity sensor, and a tipping bucket rain gauge. Options include a fuel stick sensor, solar radiation sensor and a barometric pressure sensor. A variety of other SDI sensors are available.

REAL-TIME WEATHER CONDITIONS ON DEMAND

The optional AirTalk gives you mobility by allowing you to call in to the QD via any DTMF capable voice radio for current weather conditions.

COMPLETE, YET COMPLETELY PORTABLE

The QD is easily transported on the back of an ATV or in a helicopter and can be handled and set up by one person. All components fit into two cases weighing 50 to 75 pounds each, depending on options.

WE'VE CONSIDERED EVERY DETAIL. EVEN YOUR VEHICLE'S UPHOLSTERY

Ergonomic design doesn't end with the station. The QD's upholstery-friendly case has no sharp buckles and a rugged Cordura weatherproof outer shell. The inner foam is rigid and prevents all components from being crushed. We also attach the easy one-sheet instructions for station setup and re-packing, so no matter who sets up the station, they always know exactly how to assemble and dismantle it.

ENGINEERED TO BE RUGGED. DESIGNED TO BE SIMPLE

To make a dead-simple, "no tools required" complete RAWS requires lots of design ingenuity. Clever ideas like custom-designed "fast-fit" mounting brackets and secure and stable but easy-to-handle push pins (which are even tethered to the frame so they won't get lost).

Why a Portable Weather Station?

The QD RAWS is a full weather station with the same reliability and scientific-grade accuracy as the full fixed RAWS, but in a highly portable package. Its portability means that several can be placed at the fireline and rapidly relocated as needed. It offers the same sensors and telemetry options as the fixed RAWS, and all components are interchangeable.

MORE ACCURATE SPOT WEATHER FORECASTS = MORE BURNING, SAFER BURNING

Fuels budgets are based on the acreage burned, so any tool that allows for an increased volume of fuels to be burned safely can pay for itself very quickly. Multiple QD RAWS set up ahead of the planned burn provide a far higher resolution of data, both in frequency (data transmitted once per hour) and spatially (providing finer, more localized "micro-scale climate" data). The result is continuous measuring of multiple potential burn sites, the ability to start burning as soon as conditions are in prescription, and the confidence of knowing that the burn is being executed as safely as possible.

DATA ON DEMAND AND ALERTS

The QD RAWS can be configured with AirTalk radio voice communication which provides real-time data to the fire crew at the burn site via any DTMF-capable radio. With a simple 3- or 4-digit code, AirTalk broadcasts up-to-the-minute current weather conditions via a clearly audible digitized voice. In addition, instant alerts will be broadcast if any weather parameter threshold is exceeded. This provides real-time decision-making, maximizing fire crew safety and helping prevent escaped burns.

BENEFITS OF QD RAWS FOR PRESCRIBED BURNS

- Extreme portability means it can go where needed, when needed
- High resolution of data provides accuracy needed to:
  - identify hourly trends to best decide when to start/stop ignition
  - estimate resources needed for ignition and holding
  - plan support for mop-up and patrol needs
- Allows agency to stay within given parameters
- Hourly data is archived to document weather conditions before, during and after the burn
- 24-hour remote access to data permits:
  - more accurate spot weather forecasts in a micro-climate scale
  - comparison between actual and forecasted weather
  - personnel to focus on tasks without needing to commit to weather slinging on-site
- Provides critical data, right when needed, maximizing crew safety
  - moving resources to or from threatened areas
  - initiating burn-out operations or executing contingency plans

Tough on the outside. Clever on the inside.

The Axiom Fire Data Logger

No laptop, no programming required.

Wildfire professionals operate in remote, extreme conditions where equipment failure isn't an option. The Axiom Fire Data Logger is engineered for the challenge with a fully sealed, IP67-rated enclosure, lightning protection, and military-grade connectors—ensuring reliable performance in the harshest environments.

- Simplify fieldwork and reduce downtime with an integrated color touchscreen that eliminates extra devices.

- Maintain seamless data flow with built-in GOES and Iridium satellite options, minimizing interruptions from external cable failures.

- Scale with ease as needs change with four SDI-12 ports and an Auxiliary Communication port.

100% of the **top 50** North American forest management agencies use AEM's solutions

Our customers require durable equipment that is quick and easy to set up in an emergency situation and operates with the highest level of reliability and accuracy. AEM's FTS brand offers the greatest operational functionality with the lowest total cost of ownership.

FEATURE	BENEFIT	COST REDUCED	TRAINING REDUCED	MAINTENANCE REDUCED	RELIABILITY INCREASED	SAFETY INCREASED
No field laptop PC required	• Reliable deployments and simplified operations. • No dependency on additional computer equipment or cables in the field. • Reduced capital expense by eliminating the need for laptop PCs at station installs and maintenance visits. • Elimination of damage to laptop PC due to weather.	✓	✓		✓	
No field tools required	• Reliable deployments and simplified operations and training. • No tools to go missing in field activities.				✓	
No programming required	• Reduced training requirements. • Improved reliability of deployments through minimized opportunity for error. • No laptop PC required in the field.	✓	✓		✓	
Intelligent power management	• Increased high reliability performance under adverse conditions. • Ensures data integrity. • Improves peripheral radio add-on options.	✓			✓	
No GOES antenna assembly or alignment	• Simplified, quick and consistent deployments. • Improved reliability through fewer failures. • Minimized maintenance through reduced in-field failures due to weather or animal damage.		✓	✓	✓	
Fire weather program accessible through integrated touchscreen	• In-the-field flexibility. • Ease of setup. • No laptop PC required. • Minimal training needs.	✓	✓			
Voice alert conditions easily set via touchscreen	• Configurable in the field to meet site and fire specific requirements.		✓			✓
High quality voice alerts based on real-time data	• Ensures field personnel and firefighting teams are made aware of changes in weather conditions immediately.					✓
Multiple touchtone access codes for radio voice alerting, configurable via touchscreen	• Minimize valuable radio airtime usage. • Ability to design site- and situation-specific voice alerting solutions. • Reduced power consumption of radio transmissions. • Increased field deployment time.		✓		✓	✓
System upgrades, updates, maintenance	• Simplified maintenance. • No field laptop PC required.	✓		✓		
Ability to set conditional logging parameters through touchscreen interface	• Allows for customized site- and situation-specific logging requirements. • e.g. very high resolution (every 5 minutes) logging for prescribed burns, vs. standard 1 hour logging for other conditions.				✓	✓
Electronic service reports generated through graphical UI	• Provides simple methods for recording and storing maintenance activities. • Eliminates manual creation and submitting of service reports.		✓	✓		
State-of-the-art-technology	• Long lifecycle. • Expansion options—upgrade path for future functionality.		✓	✓	✓	
Reliable access to AEM support and product experts	• Instant, toll-free access to expertise when issues or questions arise in remote field operations.		✓		✓	✓
Minimal training required (but easily accessible if needed—at no cost)	• Reduced training and support.		✓			