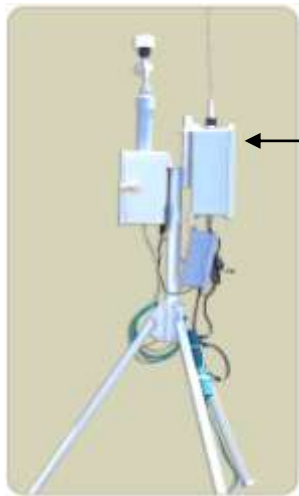


**AIRSIS AQ 2400 is a proven satellite communicator that enables near real-time air quality monitoring 7 x 24 from anywhere through satellite communications and the Internet.**



AQ 2400

AQ 2400 is suited for use with a portable air quality monitor that is rapidly deployable to wherever it's needed, such as a fire, controlled burn or dust storm when the airborne particulate count is high and unhealthy. The system not only monitors but also serves as an early-warning system, especially for sub PM 2.5 particles (<2.5 microns). The combined benefits of the system include:

- Preventing health problems from smoke inhalation.
- Reducing financial loss from smoke damage.
- Improving quality of life, or even saving lives.

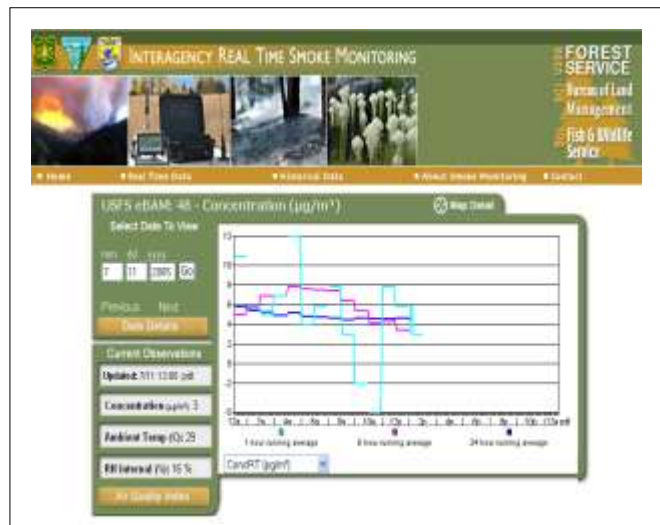
Many Federal and state environmental agencies, including EPA, U.S. Forest Service, Fish and Wildlife, and Bureau of Land Management, have installed AQ 2400 throughout the western U.S.

AQ 2400's data collection and reporting features are configurable to suit different customers' needs. It can be programmed to collect data from different sensors detecting different particulates on different schedules. Data reporting frequency can also be individualized. Once set, they can be changed and

reprogrammed "over the air" via the Web through AIRSIS Vision service.

AIRSIS AQ 2400 can be set to send alerts on preset thresholds such as when a specified particulate count is beyond the acceptable range. It supports full two-way data communications, so you can send commands to reboot the unit, for example:

#### Current Status Report



Data monitoring and access is achieved via the Web through the AIRSIS Vision service. For all parameters monitored, you will be provided detailed reports and a data trail to support internal operations, field studies and public awareness programs. AIRSIS Vision is highly configurable so that you can control what you see, how and when you see it, whenever you want to.

Since the majority of air quality monitors are located in very remote areas, telephone and wireless communications can be spotty and difficult. Satellites are often times the only viable option. By using the Orbcomm satellite network, you will enjoy reliable coverage across North America at very competitive cost. You don't have to deal with the hassles of multiple networks and inconsistent coverage to monitor a wide area.

**KEY FEATURES**

Air Quality Metrics (for example):

- ConcRT (mg/m<sup>3</sup>)
- ConcHr (mg/m<sup>3</sup>)
- Flow (l/m)
- WS (m/s)
- WD (Deg.)
- RHx %
- RHi %
- BV (V)
- FT (C<sup>0</sup>)

- Data collection interval—15 minutes
- Data transmission interval—1 hour
- Data saving time—8 hours
- 2-way command capability
- Air monitors supported—E-BAM, BAM-1020 and E-SAM from Met One Instruments, and Data RAM 4 from Thermo Electron.

Since both the AQ 2400 and the AIRSIS Vision platform are quite configurable, many features can be configured to suit specific needs.

**Global View of Deployment Sites**



**Detailed Monitoring Report**

Value	Date Time (GMT)	ConcRT (mg/m3)	ConcHr (mg/m3)	Flow (l/m)	WS (m/s)	WD (Deg)	AT (C)	RHx (%)	RHi (%)	BV (V)	FT (C)	Alarm	
13	12-JUL-2005 07:40:00	-0.004	0.007	38.7	0.3	1	12.9	5	07	14.4	18.5	0	History
13	12-MAY-2005 08:50:00	-0.005	0.008	7.4	0.3	1	20.0	2	14	14.4	32.0	532	History
13	12-MAY-2005 07:50:00	-0.000	-0.000	0.0	0.3	1	30.4	2	5	14.4	38.0	64	History
13	12-JUL-2005 17:45:00	0.000	0.007	38.7	0.3	1	20.7	0	15	14.4	37.7	0	History
12	12-JUL-2005 14:20:00	0.120	0.010	38.7	0.3	1	22.7	5	30	14.4	19.1	0	History
13	05-JUL-2005 21:45:00	0.000	-0.000	38.7	0.3	1	31.7	0	10	14.4	30.4	0	History
13	12-JUL-2005 09:15:00	0.047	-0.000	38.7	0.3	12	22.6	02	47	14.4	24.1	256	History
13.05													History
13	30-JUN-2005 13:30:00	0.000	-0.000	38.7	0.3	1	15.0	7	30	14.4	17.0	0	History
13	12-JUL-2005 10:45:00	0.010	0.002	38.7	0.3	1	20.7	4	25	14.4	31.2	0	History
13	12-JUL-2005 18:03:00	0.013	0.000	38.7	0.3	1	18.0	3	25	14.4	24.0	256	History

**TECHNICAL SPECIFICATIONS**

Data Interfaces

- 4 digital outputs
- 2 serial I/F ports
- GPS
- 8 digital inputs
- 4 analog inputs (0-5V)

Communications

- Transmit frequency 148-150 MHz
- Receive frequency 137-138 MHz
- Transmit power 5W min.
- Data rates (bps.) 2400 up/4800 down

Power

- Power source 9-36V DC or 120V AC
- Consumption
  - Transmit 2.5 A (typical) at 12V
  - 5.0 A (max) at 9V
  - Standby 120 mA (typical) at 12V
  - Sleep 100 uA (max)
- Back-up batteries

Physical & Environmental

- Size 19" x 10" x 1.75"
- Weight 11 lbs.
- Operating temperature -40 to +85 C
- Storage temperature -50 to +85 C
- FCC certified

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