Environmental Monitoring System (EMS) 300™

Wireless Monitoring Solution

Providing real-time information to optimize and protect the data center environment.
Energy Savings with Wireless Monitoring

The EMS 300™ provides a scalable and affordable wireless environmental monitoring system that integrates seamlessly into most facility management systems. A major benefit of this solution is that you can quickly and easily identify opportunities to improve your mission critical environment and realize opportunities for energy savings.

After Wireless sensor technology was deployed at a demonstration facility, substantial energy-savings benefits were realized, including:

- Cooling load reduced by 48%.
- Total power usage reduced by 17%.
- Annual savings of 657 megawatt-hours (MWh).
- Carbon footprint was reduced by 542 metric tons annually.

Stop Environmental Threats

The EMS 300™ is a powerful tool to monitor your mission critical environment. While network threats get most of the attention in data centers, environmental threats can be just as harmful to IT equipment.

The EMS 300™ allows you to:

- Verify temperature and humidity
- Ensure uptime by monitoring airflow and air pressure to/from racks
- Maintain cabinet security
- Improve uptime by receiving alerts
- Stop threats before they become a problem, such as fluid leaks, overheating, power surges, air quality, vermin, disconnected equipment, etc.

Wireless Monitoring with the EMS 300™

Upsite’s new Environmental Monitoring System (EMS) 300™ can be installed across any mission critical facility, including data centers, network closets, server rooms, and telco switch centers. The EMS 300™ offers a fully automated wireless monitoring solution with real-time tracking to help facility managers monitor IT equipment and the environmental threats that surround them.

The EMS 300™ comes with audible, visual, email, and text alarm notifications as well as logging and trending capabilities, which is the most offered on the market today, regardless of the price point. An event log records the 50 most recent alarms and returns to normal events with date and time stamp, extended sensor trending allows you to review and study environmental conditions within your facility. Trending data can also be downloadable as a CSV file.

In addition, the EMS 300™ also has 4 wired digital inputs that can monitor open/closed doors, motion sensors, fire alarms, gas detectors, airflow sensors, and summary alarms from critical equipment including UPSs and generators. The EMS 300™ also has 2 wired relay outputs to control an external device in the event of an alarm condition or supervise inline spot detectors for water leaks..

Real-Time Tracking

Once all your monitoring connections are snapped into place, the real-time information is displayed on the EMS 300’s integrated web dashboard which can be accessed from any computer or mobile device.
Seamless Integration
The EMS 300™ communicates with a wide variety of protocols for seamless integration into existing BMS, NMS, or DCIM solutions.

Communication protocols include:
- TCP/IP
- HTML
- SMTP
- TFTP
- BACnet

Battery Life Duration
The EMS 300™ features a replaceable lithium-ion battery that can last up to 4 years with 10–17 second intervals—significantly longer than most available wireless sensors.

No Annual Fees
The EMS 300™ is a one-time purchase and requires no annual licensing fees or agreements. Free firmware updates also ensure that the unit is always up-to-date with the most recent features and functionality.

Connect up to 150 Sensors
Connecting more sensors under a single network manager provides efficiency from a cost and management standpoint. Connecting up to 150 sensors under a single manager allows the EMS 300™ to obtain a large number of data points, and a single dashboard. Additionally, the “auto-discovery” feature makes it easy to add new wireless sensors.

Benefits of our Wireless Monitoring
- Easier to Physically Deploy
- Easily Scalable
- No Cables to Manage or Repair
- Cost Effective
- Replaceable Lithium Ion Battery
- Extended Range Capability
- Multiple Wireless Signal Options
- Auto Discovery and Configuration

Request more information about the EMS 300™ at UpsiteEMS@upsite.com
## Products

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**Contact us to learn more at +1.888.982.7800**