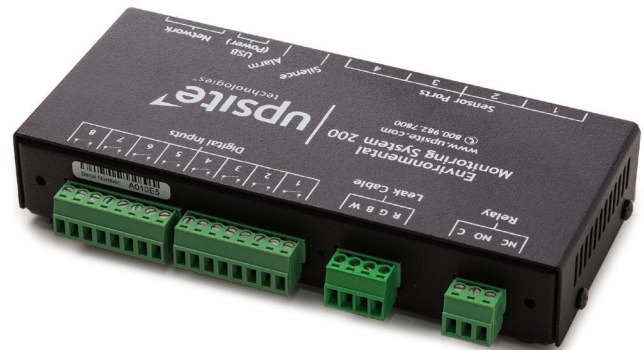




Environmental Monitoring System 200™

Part Number

200-EMS-001



Application

The Environmental Monitoring System 200™ is a wired sensor network manager that allows for 4 sensor inputs, allowing for the deployment of temperature sensors, temperature/humidity sensors or any combination of the two (not included). In addition, the EMS 200™ also has 8 digital inputs that can monitor open/closed doors, motion sensors, fire alarms, gas detectors, leak detection, airflow sensors, and summary alarms from critical equipment including UPSs and generators.

The EMS 200™ has the ability to detect water leaks up to 200 feet using our patented leak detection cable (not included) and has a relay output that allows you to control an external device in the event of an alarm condition.

Features

- Web-accessible with a clean, easy to use, mobile-friendly web interface.
- Monitors eight dry contact inputs and four temperature or temperature/humidity sensors, plus one zone of leak detection.
- Single zone leak detection supports up to 200 feet of sensing cable and spot detectors.
- Runs on USB power via included cable or 100-200VAC to 5VDC via included adapter.
- Multiple alarm notification configurations.
- Integrated logging and trending, including CSV downloadable trending data.

Benefits

- Simple installation and setup.
- Plug-and-Play configuration enables quick and effective monitoring of any local or remote facility.
- Real-time monitoring, advanced notifications, and customizable thresholds.
- Modbus output enables simple integration to a Building Management System (BMS) or DCIM.
- Solid security and reliability.
- No batteries required.

Communication Protocols

- TCP/IP
- HTML
- SMTP
- SNMP
- Modbus
- NTP

Specifications

Power for international use (included)	(US) 5VDC @ 500mA max.; 110/240VAC 50/60Hz; Wall adapter (Type A blade) to USB connector, with Type C, G, and I blades
Included Accessories	3.3 ft (1m) network cable; USB (Type A) power adapter with Type C, G, and I blades included; and USB mini B to USB A cable
Wired Inputs	
Temperature/Humidity	4 1-wire digital temperature or 1-wire digital temperature/humidity sensor inputs; plug-and-play; configurable alarm points
Digital (Dry Contact)	8 digital alarm points; configurable
Sensing Cable	One zone leak detection, compatible with all sensing cables and spot detectors
Cable Input	15 ft (4.57m) leader cable and EOL (200-LDC-015; not included), or wire one 200-LSD-014 directly to the EMS 200™
Maximum Length	200 ft (61m) of conductive fluid sensing cable, or 140 ft (43m) of chemical sensing cable
Relay Output	1 Form C summary relay; 2A @ 30VDC, 0.5A @125VAC. Configurable as summary alarm output or manual operation.
Alarm Notification	
Panel	Audible alarm, visible LED
Integrated Web Interface	Dashboard overview with alarm indicators
Email	up to 8 email recipients; email sent on alarm to all recipients, distribution list, or email-to-SMS
SNMP	Multiple community strings
Traps	1 Form C summary relay output
Relay	
Web Interface Login Security	8 password read only users; 8 password read/write users
Communication Port	
Ethernet	10/100 BaseT, RJ45 connector; 500VAC RMS isolation; DHCP enabled; Static IP-addressable
Protocols	
TCP/IP	ARP; DNS; UDP; DHCP; ICMP
HTML	Supports multiple simultaneous connections
SMTP (email)	SMTP authentication; SMTP relay; supports SSL; up to 8 recipients
Modbus TCP/IP	Modbus slave; TCP/IP transmission protocol
SNMP	V1; V2C MIB-2 compliant; NMS manageable with Get and Traps: V2C Get, V2C and V1 Traps
NTP	Custom server settings
Logging	Logs 50 most recent alarm and return to normal events with date/time stamp.
Trending	Records up to 86,400 points of sensor data. Sample interval set from 1 second to 1 day. CSV downloadable.
Operating Environment	
Temperature	-40°F to 185°F (-40° C to 85° C)
Humidity	0% to 100% RH, non-condensing
Altitude	15,000 ft (4,572 m) max.
Storage Environment	-40° F to 185° F (-40° C to 85° C)
Dimensions	5.63" W x 1.00" H x 2.63" D (143mm W x 25 mm H x 67 mm D)
Weight	10.1 oz. (287g)
Mounting	Stand alone; keyholes included for wall mount; rack mount bracket available
Certifications	CE; ETL listed: conforms to UL 61010-1, EN 61010-1; certified to CSA C22.2 NO. 61010-1; RoHS compliant

Accessories

	Product	Part Number(s)	Description
	Leak Detection Sensing Rope	200-LDS-010 200-LDS-017 200-LDS-025 200-LDS-050 200-LDS-100	Leak Detection Sensing Rope, 10 ft Leak Detection Sensing Rope, 17 ft Leak Detection Sensing Rope, 25 ft Leak Detection Sensing Rope, 50 ft Leak Detection Sensing Rope, 100 ft
	Leader Cable and End of Line Terminator	200-LDC-015	Leak Detection Leader Cable and End Of Line Terminator, 15 ft
	Temperature Sensor	200-TSR-001	Wired digital temperature sensor, 25 ft
	Temperature and Humidity Sensor	200-THS-001	Wired digital temperature and humidity sensor, 25 ft
	Rack Mount Bracket	200-RMB-001	Mounting bracket fits two EMS 200™ network managers, black
	Cable Caution Tags	200-CCT-001	Caution tags for sensing and non-sensing cables, 10 pack
	Magnetic Door Sensor	200-MDS-001	Wired, magnetic door sensor
	Smoke Detector	200-SDW-001	Wired photoelectric smoke detector, requires 12-24VDC
	Motion Sensor	200-MSW-001	Wired digital motion detector, requires 12-24VDC
	Power Adapter	200-PAC-100 200-PAC-120	Power Adapter, 100-240VAC to 5VDC Power Adapter, 120VAC to 24VAC
	Non-Sensing Cable	200-NSC-010 200-NSC-025 200-NSC-050 200-NSC-100	Non-Sensing Cable, 10 ft Non-Sensing Cable, 25 ft Non-Sensing Cable, 50 ft Non-Sensing Cable, 100 ft
	Leak Spot Detector	200-LSD-014 200-LSD-210 200-LSD-114	Leak Spot Detector, 14 ft Leader Cable Leak Spot Detector, Two 10 inch Leader Cables Leak Spot Detector, 14 ft Leader Cable, Relay Output, 24VAC/VDC
	J-Clips	200-JCL-010 200-JCL-025 200-JCL-050	J-Clips for Leak Detection Sensing Rope, 10 Pack J-Clips for Leak Detection Sensing Rope, 25 Pack J-Clips for Leak Detection Sensing Rope, 50 Pack