Environment Monitoring System with 1-Wire Sensor Interface

ENVIROMUX®

Monitor and manage environmental and security conditions over IP. Provides early warnings before critical events turn into disaster.

Environment Monitoring
- Temperature
- Humidity
- Water Leaks
- Air Flow
- Power
- Motion / Intrusion
- Vibration
- Smoke / Carbon Monoxide

Alert Notifications
- Email
- Web Page
- SNMP
- SMS

Key Features
- Monitor and manage environmental and security conditions over IP.
- Sensors supported:
  - 2 digital inputs sensitive to contact closure.
  - 2 RJ11 6P4C connectors for daisy-chaining 1-wire temperature/humidity/dew point or digital input expanders in any combination.
  - Up to 24 temperature sensors (or any single reading 1-wire sensors) can be connected between both RJ11 connectors.
  - Up to 8 temperature/humidity/dew point combination 1-wire sensors can be connected between both RJ11 connectors. Each temperature/humidity/dew point sensor is equivalent to 3 single reading sensors.
  - Up to 12 E-DI2-1W digital input expanders can be connected between both RJ11 connectors to allow a maximum of 24 additional digital inputs. Each E-DI2-1W is equivalent to 2 single reading sensors.
  - Maximum cable length supported on each connector is up to 600ft (183 m) depending on the configuration and number of connected sensors.
  - Use RJ11 splitters (RJ11-3JCK) to daisy-chain 1-wire sensors (sold separately).
- Sensors are hot pluggable.
  - The sensors will automatically be detected on power up or a Detect Devices button on the summary page can be selected when logged into the unit.
- Monitors (ping) up to 4 IP network devices – alerts are sent if devices are not responding.
- Sensor conditions can be configured to trigger alerts by themselves, and/or be used in combination with other alerts to trigger one Smart Alert.
- Supports 4 IP network video cameras for live view of any facility.
- Dual redundant power supplies for connection to two separate power sources.
  - The second power supply is sold separately.
- Optional Power over Ethernet (POE).
- Integrates with various Open Source SNMP monitoring packages – Nagios
- Optional intuitive graphical management software provides an easy-to-use, unified interface for both monitoring and configuring up to 3,000 ENVIROMUX units and all connected sensors.
- Integrated mounting brackets for easy surface/wall mounting.
  - Optional DIN mounting available.
- Security: HTTPS, SSLv3, AES 256-bit encryption, 16-character username/password authentication, user account restricted access rights.
- Ideal for a wide range of applications including IT infrastructure monitoring, cold storage/freezer monitoring, or any unmanned area that needs to be monitored.

The ENVIROMUX® Environment Monitoring System with 1-Wire Sensor Interface monitors critical environmental conditions, such as temperature, humidity, liquid water presence, power, intrusion, and smoke. When a sensor goes out of range of a configurable threshold, the system will notify you via email, web page, network management (SNMP), and/or SMS messages (via email-to-SMS).

The system supports 24 single reading 1-wire sensors in any combination – temperature, humidity, dew point, or digital inputs – and 2 separate digital inputs. It functions independently or as an IP-connected remote sensor for the E-2D/5D/16D.
## E-1W

### RJ11 Sensor Ports
- 2 RJ11 6P4C one-wire connectors
- Daisy-chain up to 24 single reading sensors total.
- Maximum cable length supported on each connector is up to 600ft depending on the configuration and number of connected sensors.
- Up to 24 temperature sensors (or any single reading 1-wire sensors) can be connected between both RJ11 connectors.
- Up to 8 temperature/humidity/dew point combination 1-wire sensors can be connected between both RJ11 connectors. Each temperature/humidity/dew point sensor is equivalent to 3 single reading sensors.
- Up to 12 E-DI2-1W digital input expanders can be connected between both RJ11 connectors to allow a maximum of 24 additional digital inputs. Each E-1W is equivalent to 2 single reading sensors.

### Digital Inputs – Screw Terminal Pair
- 2

### Alerts
- 4 Methods
  - Email
  - Web Page
  - SNMP traps (v1, v2c, v3)
  - SMS Messages

### Smart Alerts
- 1

### IP Cameras
- 4 - up to 4 cameras

### Control Methods
- 3 Methods
  - Web Interface
  - Telnet
  - SNMP Monitoring (v1, v2c, v3)

### Expandable
- Up to 3,000 units via optional management software

### Flash Upgradable
- ✓

### Protocols Supported
- HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, TLS v1.2, AES & DES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour

### Restore Defaults Button
- ✓

### Operating & Storage Temperature
- -4 to 167°F (-20 to 75°C)

### Operating & Storage Relative Humidity
- 5 to 90% non-condensing RH

### Power
- Optional Power-over-Ethernet (POE)
  - Dual DC power
    - 100 to 240 VAC at 50 or 60 Hz via AC adapter.
    - E-1W: Includes one country-specific AC adapter. The second AC adapter is sold separately.
    - E-1WP: Country-specific AC adapters are sold separately
  - 5.5VDC input voltage
  - E-1W: 703,871 hours

### Dimensions WxDxH (in)
- 4x3.65x1.37

### Mounting
- Mounting holes to match rack hole spacing

### Regulatory Approvals
- CE, RoHS, TAA compliant.

### Warranty
- 2 years