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, thermocouple, or digital input expanders in any combination.
  - Up to 24 temperature, thermocouple, or any single reading 1-wire sensor 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 ENVIROMUX-DI2-1W digital input expanders can be connected between both RJ11 connectors to allow a maximum of 24 additional digital inputs. Each ENVIROMUX-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.
- USB port for connecting USB modem.
- Dual redundant power supplies for connection to two separate power sources.
  - The second power supply is sold separately.
  - Optional Power over Ethernet (POE).
  - Integrate with various Open Source SNMP monitoring packages – Nagios and MRTG
  - 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.
  - 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 external USB 3G modem).

The system supports 24 single reading 1-wire sensors in any combination – temperature, humidity, dew point, thermocouple or digital inputs-and 2 separate digital inputs.
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<th>ENVIROMUX-1W</th>
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| **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, thermocouple, or any single reading 1-wire sensor 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 ENVIROMUX-DI2-1W digital input expanders can be connected between both RJ11 connectors to allow a maximum of 24 additional digital inputs. Each ENVIROMUX-DI2-1W is equivalent to 2 single reading sensors. |
| **Digital Inputs – Screw Terminal Pair** | 2 |
| **Alerts** | 4 Methods  
- Email ✓  
- Web Page ✓  
- SNMP traps (v1, v2c) ✓  
- SMS Messages ✓ via external USB 3G modem (not included) |
| **Smart Alerts** | 1 |
| **IP Cameras** | ✓ – up to 4 cameras |
| **Control Methods** | 3 Methods  
- Web Interface ✓  
- Telnet ✓  
- SNMP Monitoring (v1, v2c) ✓ |
| **USB Ports for Modem** | 1 |
| **Expandable** | Up to 3,000 units via optional management software |
| **Flash Upgradable** | ✓ |
| **Protocols Supported** | HTTP/HTTPS, SNMP V1/V2c, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSLv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour |
| **Restore Defaults Button** | ✓ |
| **Operating & Storage Temperature** | -40 to 167°F (-40 to 75°C) |
| **Operating & Storage Relative Humidity** | 0 to 90% non-condensing RH |
| **Monitor (Ping) IP Devices** | ✓ – up to 4 network devices |
| **Power** | Optional Power-over-Ethernet (POE)  
- Dual DC power  
- 120 to 240 VAC at 50 or 60 Hz via AC adapter.  
- ENVIROMUX-1W: Includes one country-specific AC adapter. The second AC adapter is sold separately.  
- ENVIROMUX-1WP: Country-specific AC adapters are sold separately |
| **MTBF** | ENVIROMUX-1W: 703,871 hours |
| **Dimensions WxDxH (in)** | 4x3.65x1.37 |
| **Mounting** | Mounting holes to match rack hole spacing |
| **Regulatory Approvals** | CE, RoHS |
| **Warranty** | 2 years |