

# 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
- SNMP
- Web Page
- 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 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.
- 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.

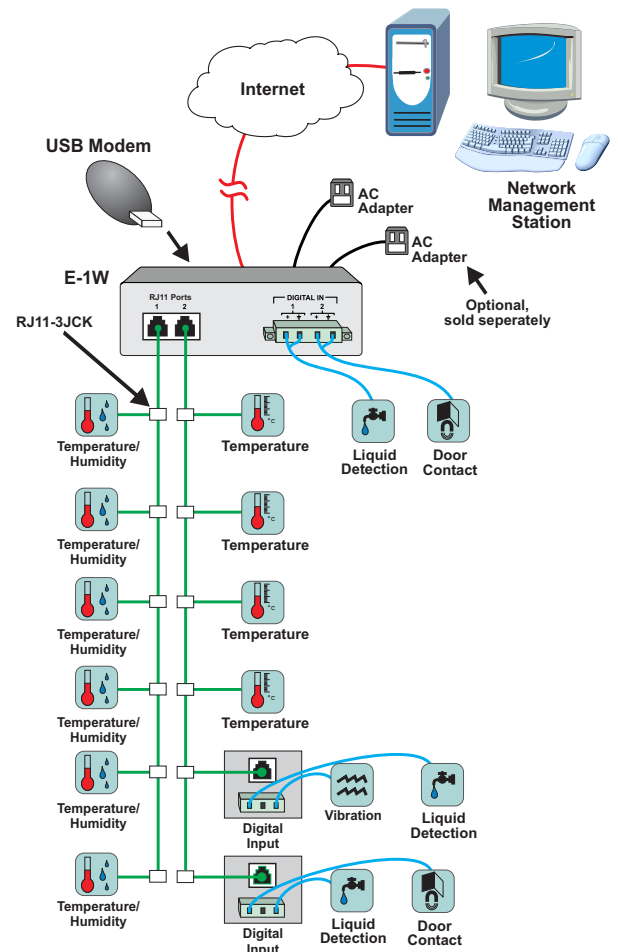


E-1W

Designed and  
Manufactured  
in the USA

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, thermocouple or digital inputs – and 2 separate digital inputs.



# 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.**

	E-1W
<b>RJ11 Sensor Ports</b>	2 RJ11 6P4C one-wire connectors <ul style="list-style-type: none"> <li>• Daisy-chain up to 24 single reading sensors total.</li> <li>• Maximum cable length supported on each connector is up to 600ft depending on the configuration and number of connected sensors.</li> <li>• Up to 24 temperature, thermocouple, or any single reading 1-wire sensor can be connected between both RJ11 connectors.</li> <li>• 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.</li> <li>• 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.</li> </ul>
<b>Digital Inputs – Screw Terminal Pair</b>	2
<b>Alerts</b>	4 Methods
Email	✓
Web Page	✓
SNMP traps (v1, v2c)	✓
SMS Messages	✓ – via email-to-SMS alerts
<b>Smart Alerts</b>	1
<b>IP Cameras</b>	✓ – up to 4 cameras
<b>Control Methods</b>	3 Methods
Web Interface	✓
Telnet	✓
SNMP Monitoring (v1, v2c)	✓
<b>Expandable</b>	Up to 3,000 units via optional management software
<b>Flash Upgradable</b>	✓
<b>Protocols Supported</b>	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
<b>Restore Defaults Button</b>	✓
<b>Operating &amp; Storage Temperature</b>	-40 to 167°F (-40 to 75°C)
<b>Operating &amp; Storage Relative Humidity</b>	0 to 90% non-condensing RH
<b>Monitor (Ping) IP Devices</b>	✓ – up to 4 network devices
<b>Power</b>	Optional Power-over-Ethernet (POE) Dual DC power <ul style="list-style-type: none"> <li>• 120 to 240 VAC at 50 or 60 Hz via AC adapter.               <ul style="list-style-type: none"> <li>♦ E-1W: Includes one country-specific AC adapter. The second AC adapter is sold separately.</li> <li>♦ E-1WP: Country-specific AC adapters are sold separately</li> </ul> </li> </ul>
<b>MTBF</b>	5.5VDC input voltage E-1W: 703,871 hours
<b>Dimensions WxDxH (in)</b>	4x3.65x1.37
<b>Mounting</b>	Mounting holes to match rack hole spacing
<b>Regulatory Approvals</b>	CE, RoHS
<b>Warranty</b>	2 years