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 onditions 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).
- Integrates with various Open Source SNMP monitoring packages – Nagios and MRTG
- (Coming Soon) 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.
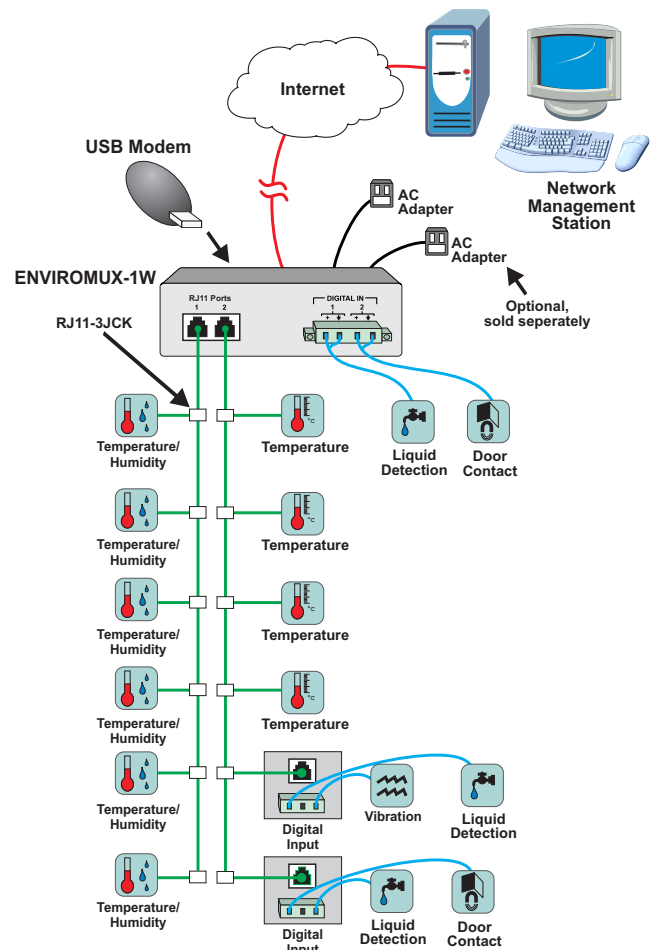
Designed and Manufactured in the USA

ENVIROMUX-1W

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

	ENVIROMUX-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 con figuration 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 (Coming Soon)	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
	5.5VDC input voltage
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

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2

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