

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 server room environmental and security conditions over IP.
- Sensors supported:
 - 2 digital inputs sensitive to contact closure.
 - 2 RJ11 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.
- 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.

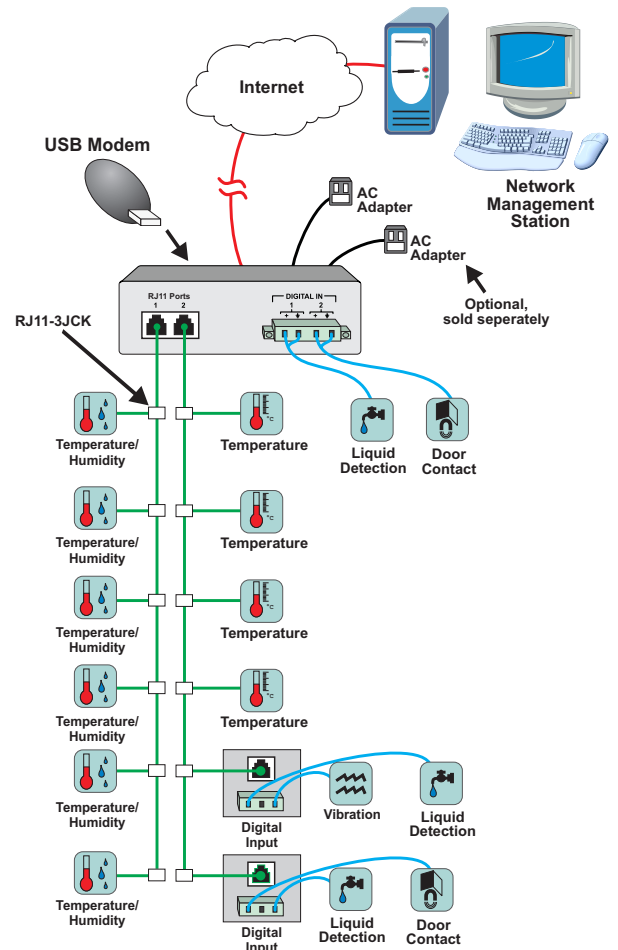


ENVIROMUX-1W

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 external USB 3G modem).

The system functions independently or as an IP-connected remote sensor for the ENVIROMUX-2D/5D/16D. The unit 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.

	ENVIROMUX-1W
RJ11 Sensor Ports	2 RJ11 one-wire connectors <ul style="list-style-type: none"> • 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 (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
	<ul style="list-style-type: none"> • 120 to 240 VAC at 50 or 60 Hz via AC adapter. <ul style="list-style-type: none"> ♦ 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
Dimensions WxDxH (in)	4x3.65x1.37
Mounting	Mounting holes to match rack hole spacing
Regulatory Approvals	CE, RoHS
Warranty	2 years

Note: Specifications are subject to change. Call an NTI product consultant for the most up-to-date information.

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.**

Digital Input Expander



ENVIROMUX-D12-1W

- Use to connect two dry contact sensors to the ENVIROMUX-1W 1-wire daisy-chain configuration.
 - Each ENVIROMUX-DI2-1W counts as two single reading sensors.
 - Up to 12 ENVIROMUX-DI2-1W can be connected to the ENVIROMUX-1W.
- Connectors
 - For dry contact sensors: 3-pin terminal block
 - For ENVIROMUX-1W: RJ11 connector.
- Maximum cable length: 600 ft (183 m).
 - Distance between dry contact sensors and ENVIROMUX-DI2-1W does not count toward the 600ft 1-wire daisy-chain limitation.
- Compatible with ENVIROMUX-1W.
- Powered by the ENVIROMUX-1W.

Door Contact Sensor



ENVIROMUX-M-DCS

- Monitors access with a magnetic bridge sensor, which responds to any magnetic material (no special inserts necessary).
- Can also be used for monitoring side wall and covers.
- Includes mounting hardware.
- For normally closed circuit connection.
- 2-wire interface.
- Screw terminal.
- Maximum cable length: 1,000 ft
- Wide actuating gap, approximately 1".
- Dimensions WxDxH (in): 0.5x0.5x2 (Switch), 0.5x0.5x2 (Magnet).
- Operating temperature: 32 to 158°F (0 to 70°C).
- Regulatory approvals: RoHS
- Compatible with the ENVIROMUX-DI2-1W Digital Input Expander.

Temperature Sensor



ENVIROMUX-T1W-1M

- Applications from -40 to 185°F (-40 to 85°C).
- Temperature accuracy: $\pm 1.0^{\circ}\text{F}$ ($\pm 0.5^{\circ}\text{C}$) for 14 to 185°F (-10 to 85°C).
- Probe size: 0.24x1.1" (6x30 mm).
- Length: 3.28 feet (1 meter).
- Each ENVIROMUX-T1W-1M counts as a single reading sensor.
 - Up to 24 Temperature sensors can be used with the ENVIROMUX-1W.
- Rated IP67.
- Ideal for a wide range of applications including IT infrastructure monitoring, cold storage/freezer monitoring, and more.