

Micro Environment Monitoring System / Remote Temperature/Humidity Sensor over IP

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

- Sensors supported by a single E-MICRO:
 - 1 integrated temperature/humidity combination sensor
 - 2 RJ45 ports for external temperature/humidity sensors
 - 2 digital inputs sensitive to contact closure
- Dual DC power provides dual redundancy.
- Available with optional built-in Power over Ethernet.
- Sensors are hot pluggable.
- Monitor (ping) up to 4 IP network devices – alerts are sent if devices are not responding.
- Create multiple alerts for any installed sensor.
- Sensor conditions can be configured to trigger alerts by themselves, and/or be used in combination with other alerts to trigger one Smart Alert.
- Configure up to 32 alerts, and one Smart Alert.
- Alerts are posted in message log, which is accessible through Web user interface.
- Supports 4 IP network video cameras for live view of any facility.
- Integrates with various Open Source SNMP monitoring packages – Nagios.
- The unit can be polled via SNMP.
- 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.
- Optional Android App provides an easy-to-use interface for monitoring sensor statuses and acknowledging/dismissing sensor alerts from an unlimited number of E-MICRO units.
- Integrated mounting brackets for easy surface/wall mounting.
 - Optional DIN mounting available.
- Security: HTTPS, TLS v1.2, AES 256-bit encryption, 16-character username/password authentication, user account restricted access rights.
- Use in data centers, co-lo sites, web hosting facilities, telecom switching sites, POP sites, server closets, or any unmanned area that needs to be monitored.

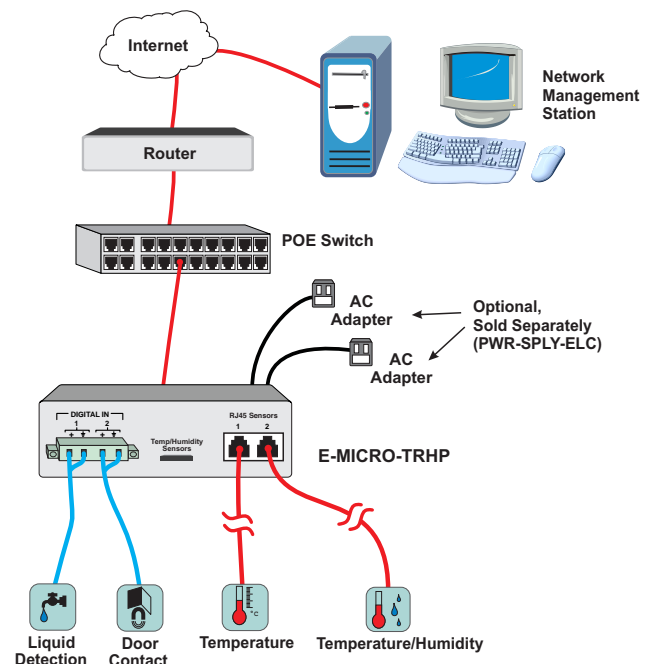


E-MICRO-TRH

- **Integrated temp/humidity sensor, 2 RJ45 temp/humidity ports, 2 digital inputs**
- **Power over Ethernet option**

The ENVIROMUX® Micro Environment Monitoring System 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 functions independently or as an IP-connected remote sensor for the E-2D/5D/16D. It features an integrated temperature/humidity sensor, two RJ45 sensor ports for external temperature/humidity sensors, two dry contact inputs and optional built-in Power over Ethernet (PoE).



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	E-MICRO-TRH	E-MICRO-TRHP
Integrated Sensors	2	2
Temperature (in moving air – minimum airflow 8.2 ft/s (2.5 m/s))	-4 to 167°F (-20 to 75°C) ±0.72°F at 14 to 167°F (±0.40°C at -10 to 75°C) ±0.9°F at -4 to 14°F (±0.5°C at -20 to -10°C)	-4 to 167°F (-20 to 75°C) ±0.72°F at 14 to 167°F (±0.40°C at -10 to 75°C) ±0.9°F at -4 to 14°F (±0.5°C at -20 to -10°C)
Humidity	0 to 80% relative humidity, ±3% 80 to 90% relative humidity, ±4%	0 to 80% relative humidity, ±3% 80 to 90% relative humidity, ±4%
RJ45 Sensor Ports	2 Compatible with: E-T-E25, E-T-IND-E7, E-TRHM-E25	2 Compatible with: E-T-E25, E-T-IND-E7 E-TRHM-E25
Digital Inputs – Screw Terminal Pairs	2	2
Alerts	5 Methods	5 Methods
Email	✓	✓
Web Page	✓	✓
SNMP traps (v1, v2c, v3)	✓	✓
Syslog	✓	✓
SMS Messages	✓ – via email-to-SMS alerts	✓ – via email-to-SMS alerts
Smart Alerts	1	1
IP Cameras	✓ – up to 4 cameras	✓ – up to 4 cameras
Control Methods	3 Methods	3 Methods
Web Interface	✓	✓
Telnet Monitoring	✓	✓
SNMP Monitoring (V1, V2c, V3)	✓	✓
Expandable	Up to 3,000 units via optional management software	Up to 3,000 units via optional management software
Flash Upgrade	✓	✓
Protocols Supported HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, TLS v1.2, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour	✓	✓
HTTP REST API	✓	✓
Restore Defaults Button	✓	✓
Operating & Storage Temperature	-4 to 167°F (-20 to 75°C)	-4 to 167°F (-20 to 75°C)
Operating & Storage Relative Humidity	0 to 90% non-condensing RH	0 to 90% non-condensing RH
Monitor (Ping) IP Devices	✓ – up to 4 network devices	✓ – up to 4 network devices
Power	Dual DC Power 100 to 240 VAC at 50 or 60 Hz via AC adapter (Includes one country-specific AC adapter. The second AC adapter is sold separately.) 5.5VDC ±5% input voltage	Built-in Power-over-Ethernet (POE) Dual DC Power 100 to 240 VAC at 50 or 60 Hz via AC adapter (Not included. Country-specific AC adapters sold separately – PWR-SPLY-ELC) 5.5VDC ±5% input voltage
MTBF	628,394 hours	577,812 hours
Dimensions WxDxH (in)	4x3.44x1.37	4x3.44x1.37
Mounting	Mounting holes to match rack hole spacing	Mounting holes to match rack hole spacing
Regulatory Approvals	CE, RoHS	CE, RoHS
Warranty	2 years	2 years

Technische Daten des IP Thermometers ENVIROMUX-MICRO-TRH

Technische Daten des IP Netzwerk Thermometers ENVIROMUX-Micro-TRHP

Integrierter Sensor

Integrierte Sensoren	1 x Integrierter Temperatursensor 1 x Integrierter Luftfeuchtesensor
Messbereich	Interner Temperaturfühler ■ -20 bis 75 ° C (-4 bis 167 ° F) Interner Luftfeuchtefühler ■ 0 bis 90%
Messgenauigkeit	Interner Temperatursensor ■ $\pm 0,4$ ° C im Messbereich -10 bis 75 ° C ■ $\pm 0,5$ ° C im Messbereich -20 bis -10 ° C Interner Feuchtesensor ■ 0 bis 80% relative Luftfeuchtigkeit, $\pm 3\%$ 80 bis 90% relative Luftfeuchtigkeit, $\pm 4\%$

Temperaturauflösung 0,1° C (0,2° F)

Anschlüsse

Sensor-Anschlüsse für externe Sensoren

RJ45-Ports für Sensoren	2 x RJ45 Buchse für den Anschluss weiterer Temperatursensoren oder kombinierten Temperatur-/Luftfeuchtesensoren
Potentialfreie Kontakte	2 x Schraubklemmenpaare für den Anschluss von Türkontaktsensoren, Rauchmelder, Gaswarngeräte, Bewegungsmelder, Liquid Sensoren (Rope-Style-Lecksucher, Spot-Lecksucher, Unter Carpet & Tape-Style-Lecksucher), Air Flow Sensor, Vibration, Glasbruchsensoren, Sabotagekontakt, Notfall / Panic Button

Weitere Anschlüsse

USB-Anschluss	1 x Micro-USB 2.0 Buchse (reserviert zur zukünftigen Verwendung)
Ethernet-Anschluss	1 x RJ45-Buchse (10/100 Base-T Ethernet-Schnittstelle)
Stromversorgung	2 x DC-Stromeingangsbuchsen Dual DC für eine Redundante Stromversorgung : Wenn die erste Stromquelle ausfällt, schaltet das IP Thermometer ohne Unterbrechung automatisch auf die zweite Stromquelle um. 1 x Netzteil im Lieferumfang enthalten

Alarmierungen

E-Mail	✓
Web Page	✓
SNMP traps (v1, v2c)	✓
System-Log	✓
SMS-Benachrichtigung	✓ - via email-to-SMS
Smart Alerts	✓

Kontroll Methoden

Web Interface	✓
Telnet	✓
SNMP Monitoring (v1, v2c)	✓

Protokolle

Unterstützte Protokolle HTTP / HTTPS, SNMP v1 / v2c, SMTP, TCP / IP, Syslog, SNTP, DHCP, SSL 2.0*, AES 256-Bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour.

Weiteres

Kompatibel mit jeder SNMP-Management-Software.

Betrieb und Konfiguration über HTTP / HTTPS Web-Seite

Automatische Zuweisung einer IP-Adresse über DHCP-Server möglich

Erzeugt SNMP-Traps, E-Mail-Benachrichtigungen*, Syslog-Meldungen, und SMS-Nachrichten (via email-to-SMS)

- Warnungen werden in Ereignisprotokoll, das über Web-Interface zugänglich ist protokolliert
- E-Mail-Benachrichtigungen* können an bis zu 9 Adressen gesendet werden
 - Zeitsteuerung: In einem Zeitplan können Sie konfigurieren welcher Benutzer in welchem Zeitraum alarmiert werden soll (Überschneidungen sind möglich).

Strom

Stromversorgung	Redundante Stromversorgung 100-240 VAC; 50-60Hz; über Netzteil (Ein Netzteil im Lieferumfang enthalten. Ein zweites Netzteil für das IP Thermometer ENVIROMUX-Micro-TRH ist optional erhältlich)
Eingangsspannung	5,5 VDC ±5%
Stromverbrauch	max. 4 Watt

Umweltbedingungen

Betriebstemperatur	-20 bis 75 ° C
Lagertemperatur	-20 bis 75 ° C
Luftfeuchtigkeit	0 - 90 % rel. Luftfeuchte, nicht kondensierend

Physische Eigenschaften

Gehäuse	Kunststoff
Abmessungen (BxTxH)	102x87x35 mm (4x3.44x1.37 in) Inklusive Befestigungslöcher für Rackmontage - Lochabstand entsprechen

Zulassungen

Zulassungen	CE, RoHS
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