

Environment Monitoring System

ENVIROMUX®

Feature Comparison



Product Feature	ENVIROMUX-16D	ENVIROMUX-5D	ENVIROMUX-2D	ENVIROMUX-MINI-LXO	ENVIROMUX-MICRO	ENVIROMUX-1W
Internal/Integrated Sensors	3	2	0	0	2	0
Temperature	✓ (internal)	✓ (internal)	N/A	N/A	✓ (integrated)	N/A
Humidity	✓ (internal)	✓ (internal)	N/A	N/A	✓ (integrated, optional)	N/A
Power	✓ (internal)	✓ (optional battery only)	✓ (optional battery only)	✓ (optional battery only)	N/A	N/A
Sensor Ports – RJ45/RJ11	16 RJ45	5 RJ45	2 RJ45	2 RJ45 For temperature/humidity only	2 RJ45 For temperature/humidity only	2 RJ11 (6P4C) For daisy-chaining 24 single-reading temperature/humidity/dew point, thermocouple, or digital input expanders
Digital Inputs – Screw Terminal	8	5	5	5	2	2
Output Relays – Screw Terminal	4	2	1	1	N/A	N/A
Auxiliary (12V) Power Terminal	✓	✓	✓	N/A	N/A	N/A
Alerts	10 Methods	9 Methods	9 Methods	8 Methods	5 Methods	5 Methods
Email	✓ Alerts sent to up to 17 email addresses	✓ Alerts sent to up to 17 email addresses	✓ Alerts sent to up to 17 email addresses	✓ Alerts sent to up to 17 email addresses	✓ Alerts sent to up to 9 email addresses	✓ Alerts sent to up to 9 email addresses
Web Page	✓	✓	✓	✓	✓	✓
SNMP traps	✓ - v1, v2c, v3	✓ - v1, v2c, v3	✓ - v1, v2c, v3	✓ - v1, v2c, v3	✓ - v1, v2c	✓ - v1, v2c
Syslog	✓	✓	✓	✓	✓	✓
LEDs	6 (Power, Low Battery, Check Log, Internal Sensor Alert, External Sensor Alert, Auxiliary)	2 (Power, Fault)	2 (Power, Fault)	2 (Power, Fault)	N/A	N/A
Alarm beacon	✓ (dedicated terminal)	✓ (one terminal for either purpose)	Can be connected (using output relay)	Can be connected (using output relay)	N/A	N/A
Siren	✓ (dedicated terminal)					
Voice Phone Calls	✓ - via Automatic Voice Dialer System (not included)	✓ - via Automatic Voice Dialer System (not included)	✓ - via Automatic Voice Dialer System (not included)	✓ - via Automatic Voice Dialer System (not included)	N/A	N/A
SMS Messages	✓ - via external USB 3G modem (not included) Alerts sent to up to 17 numbers	✓ - via external USB 3G modem (not included) Alerts sent to up to 17 numbers	✓ - via external USB 3G modem (not included) Alerts sent to up to 17 numbers	✓ - via external USB 3G modem (not included) Alerts sent to up to 17 numbers	✓ - via external USB 3G modem (not included) Alerts sent to up to 9 numbers	✓ - via external USB 3G modem (not included) Alerts sent to up to 9 numbers
Android/iOS App	✓ - optional	✓ - optional	✓ - optional	N/A	N/A	N/A
Smart Alerts	20	20	20	20	1	1
IP Cameras	✓ - up to 8 cameras	✓ - up to 8 cameras	✓ - up to 8 cameras	✓ - up to 8 cameras	✓ - up to 4 cameras	✓ - up to 4 cameras
Alarm Triggered IP Camera Snapshots Emailed	✓	✓	✓	✓	N/A	N/A
Alarm Silence/Test Button	✓	✓	N/A	N/A	N/A	N/A

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Control Methods	6 Methods	6 Methods	5 Methods	5 Methods	3 Methods	3 Methods
Web Interface	✓	✓	✓	✓	✓	✓
Telnet	✓	✓	✓	✓	✓ - monitoring only	✓ - monitoring only
SNMP Monitoring	✓ - v1, v2c, v3	✓ - v1, v2c, v3	✓ - v1, v2c, v3	✓ - v1, v2c, v3	✓ - v1, v2c	✓ - v1, v2c
SSH	✓	✓	✓	✓	N/A	N/A
USB-to-Serial Console	✓	✓	✓	✓	N/A	N/A
RS232 (DCE) Console	✓	✓	N/A	N/A	N/A	N/A
USB Ports for Modem and/or Data Logging	4	4	2	2	1 - modem only	1 - modem only
Flash Upgrade	✓	✓	✓	✓	✓	✓
Linux Inside	✓	✓	✓	✓	N/A	N/A
Restore Defaults Button	✓	✓	✓	✓	N/A	✓
System Reset Button	✓	✓	✓	✓	N/A	N/A
Protocols	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNMP, DHCP, SSHv2, SSLv3, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0, RADIUS	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNMP, DHCP, SSHv2, SSLv3, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0, RADIUS	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNMP, DHCP, SSHv2, SSLv3, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0, RADIUS	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNMP, DHCP, SSHv2, SSLv3, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0	HTTP/HTTPS, SNMP V1/V2c, SMTP, TCP/IP, Syslog, SNMP, DHCP, TLS v1.2, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour	HTTP/HTTPS, SNMP V1/V2c, SMTP, TCP/IP, Syslog, SNMP, DHCP, SSLv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour
Operating Temperature	32°F to 100°F (0°C to 38°C)	E-5D: 32 to 140°F (0 to 60°C) E-5DB: 32 to 104°F (0 to 40°C) E-5DB-IND: 32 to 140°F (0 to 60°C)	32°F to 100°F (0°C to 38°C)	32°F to 104°F (0°C to 40°C) Optional industrial model: 32°F to 167°F (0°C to 75°C).	-4 to 167°F (-20 to 75°C)	-4 to 167°F (-20 to 75°C)
Storage Temperature	-22°F to 140°F (-30°C to 60°C)	E-5D: -22 to 140°F (-30 to 60°C) E-5DB-IND: -4 to 176°F (-20 to 80°C)	-22°F to 140°F (-30°C to 60°C)	-20°F to 176°F (-20°C to 80°C)	-4 to 167°F (-20 to 75°C)	-4 to 167°F (-20 to 75°C)
Operating & Storage Relative Humidity	17 to 90% non-condensing RH	17 to 90% non-condensing RH	17 to 90% non-condensing RH	17 to 90% non-condensing RH	0 to 90% non-condensing RH)	0 to 90% non-condensing RH
Backup Battery	✓ - up to 1 Hour	Optional – up to 2 Hours	Optional – up to 2 Hours	Optional – up to 2 Hours	N/A	N/A
Monitor (Ping) IP Devices	✓ - up to 64 network devices	✓ - up to 64 network devices	✓ - up to 64 network devices	✓ - up to 16 network devices	✓ - up to 4 network devices	✓ - up to 4 network devices
Power	<ul style="list-style-type: none"> • 110 or 230 VAC at 50 or 60 Hz via IEC connector. • Options: dual AC power, 24VDC, dual 24VDC, 48VDC, dual 48VDC . <ul style="list-style-type: none"> o 24V options: accepts 20~32VDC o 48V options: accepts 36~72VDC o Dual power options: second power supply sold separately. 	<ul style="list-style-type: none"> • 110 or 220 VAC at 50 or 60 Hz via AC adapter. • Options: dual AC power, 48VDC . <ul style="list-style-type: none"> o 48V option: accepts 18~72VDC. o Dual power options: second power supply sold separately. 	<ul style="list-style-type: none"> • 110 or 220 VAC at 50 or 60 Hz via AC adapter. • Options: dual AC power, 24VDC . <ul style="list-style-type: none"> o 24V option: accepts 9~36VDC. o Dual power options: second power supply sold separately. 	<ul style="list-style-type: none"> • 110 or 220 VAC at 50 or 60 Hz via AC adapter 	<ul style="list-style-type: none"> • 110 or 240 VAC at 50 or 60 Hz via AC adapter. • E-MICRO-T: Dual DC power (Second power supply sold separately). • E-MICRO-TRH: Power over Ethernet (PoE), Dual DC power (AC adapters not included, sold separately). 	<ul style="list-style-type: none"> • 110 or 240 VAC at 50 or 60 Hz via AC adapter. • ENVIROMUX-1W: Dual DC power (Second power supply sold separately) • ENVIROMUX-1WP: Power over Ethernet (PoE), Dual DC power (AC adapters not included, sold separately)

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MTBF	39,685 hours	170,344 hours	229,580 hours	274,783 hours	648,857 hours	703,871 hours
Dimensions WxDxH (in)	Without supplied rackmount kit : 16.19x10.01x1.75 With supplied rackmount kit: 19x10.01x1.75	E-5D: 7.88x3x1.75 E-5D-48V: 10.25x3.1x1.75 E-5DB-IND: 10.25x3.1x1.75	5.82x3x1.75	5.82x3x1.75	4x3.44x1.37	4x3.65x1.37
Mounting	1RU	<ul style="list-style-type: none"> Zero-RU – mounting tabs included Optional 1RU mounting kit Optional DIN rail mounting kit 	<ul style="list-style-type: none"> Zero-RU – mounting tabs included Optional 1RU mounting kit Optional DIN rail mounting kit 	<ul style="list-style-type: none"> Zero-RU – mounting tabs included Optional 1RU mounting kit Optional DIN rail mounting kit 	<ul style="list-style-type: none"> Mounting hole to match rack hole spacing 	<ul style="list-style-type: none"> Mounting hole to match rack hole spacing
Regulatory Approvals	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS	CE, RoHS
Warranty	2 years	2 years	2 years	2 years	2 years	2 years
Expandable	✓	✓	✓	✓	✓	✓
Management Software	<ul style="list-style-type: none"> ✓ - Optional (ENVIROMUX-MNG-xxxx) Monitor and configure up to 3,000 ENVIROMUX-2D/5D/16D units Graph trends Mass configuration View real-time sensor values Remotely power down devices by adding Remote Power Control Units Scrolling sensor summary pages for a specific unit, all units, or a pre-configured group of units. 	<ul style="list-style-type: none"> ✓ - Optional (ENVIROMUX-MNG-xxxx) Monitor and configure up to 3,000 ENVIROMUX-2D/5D/16D units Graph trends Mass configuration View real-time sensor values Remotely power down devices by adding Remote Power Control Units Scrolling sensor summary pages for a specific unit, all units, or a pre-configured group of units. 	<ul style="list-style-type: none"> ✓ - Optional (ENVIROMUX-MNG-xxxx) Monitor and configure up to 3,000 ENVIROMUX-2D/5D/16D units Graph trends Mass configuration View real-time sensor values Remotely power down devices by adding Remote Power Control Units Scrolling sensor summary pages for a specific unit, all units, or a pre-configured a group of units. 	N/A	<ul style="list-style-type: none"> ✓ - Optional (ENVIROMUX-MNG-LC) Monitor and configure up to 3,000 ENVIROMUX-MICRO and ENVIROMUX-1W (coming soon) units Graph trends Mass configuration View real-time sensor values Remotely power down devices by adding Remote Power Control Units Scrolling sensor summary pages for a specific unit, all units, or a pre-configured group of units. 	Coming Soon
Cascade	<ul style="list-style-type: none"> ✓ - Optional Up to 5 units Ethernet (1 master, 4 slaves) 	<ul style="list-style-type: none"> ✓ - Optional Up to 5 units Ethernet (1 master, 4 slaves) 	<ul style="list-style-type: none"> ✓ - Optional Up to 5 units Ethernet (1 master, 4 slaves) 	N/A	<ul style="list-style-type: none"> ✓ - Optional Use as standalone unit or as an IP-connected remote sensor for the ENVIROMUX-2D/5D/16D 	<ul style="list-style-type: none"> ✓ - Optional Use as standalone unit or as an IP-connected remote sensor for the ENVIROMUX-2D/5D/16D

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Additional Sensor Ports (not included)	<p>Up to 16 ENVIROMUX-DI16DO16 or ENVIROMUX-DI16DOR16 units</p> <ul style="list-style-type: none"> • ENVIROMUX-DI16DO16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (open-collector) • ENVIROMUX-DI16DOR16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (N.O.) 	<p>Up to 16 ENVIROMUX-DI16DO16 or ENVIROMUX-DI16DOR16 units</p> <ul style="list-style-type: none"> • ENVIROMUX-DI16DO16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (open-collector) • ENVIROMUX-DI16DOR16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (N.O.) 	<p>Up to 16 ENVIROMUX-DI16DO16 or ENVIROMUX-DI16DOR16 units</p> <ul style="list-style-type: none"> • ENVIROMUX-DI16DO16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (open-collector) • ENVIROMUX-DI16DOR16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (N.O.) 	N/A	N/A	<p>Daisy-chain compatible sensors in any combination</p> <ul style="list-style-type: none"> • Up to 24 temperature, thermocouple, or any single-reading 1-wire sensor can be connected • Up to 8 temperature/humidity/dew point combination 1-wire sensors can be connected • Up to 12 ENVIROMUX-DI2-1W digital input expanders can be connected to allow a maximum of 24 additional digital inputs.
Starting Price	\$1,215	\$520	\$370	\$305	\$185	\$162