

Environment Monitoring System

ENVIROMUX®

Feature Comparison



Product Feature	E-16D	E-5D	E-2D	E-MINI-LXO	E-MICRO	E-1W
Internal/Integrated Sensors	3	2	0	0	2	0
Temperature	✓ (internal - monitors ambient air temp)	✓ (internal - monitors ambient air temp)	N/A	N/A	✓ (internal - monitors inside case)	N/A
Humidity	✓ (internal - monitors humidity in air)	✓ (internal - monitors humidity in air)	N/A	N/A	✓ (internal - monitors inside case)	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	9 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, v3	✓ - v1, v2c, v3
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 modem (not included) Alerts sent to up to 17 numbers	✓ - via external USB modem (not included) Alerts sent to up to 17 numbers	✓ - via external USB modem (not included) Alerts sent to up to 17 numbers	✓ - via external USB modem (not included) Alerts sent to up to 17 numbers	✓ - email-to-SMS alerts	✓ - email-to-SMS alerts
Mobile App	N/A	N/A	N/A	N/A	✓ - optional (iOS or Android)	✓ - optional (iOS)
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, v3	✓ - v1, v2c, v3
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	reserved for future use	reserved for future use
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, SNTP, DHCP, SSHv2, SSLv3, TLS v1.2, LDAPv3, XOAUTH2, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0, RADIUS	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSHv2, SSLv3, TLS v1.2, LDAPv3, XOAUTH2, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0, RADIUS	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSHv2, SSLv3, TLS v1.2, LDAPv3, XOAUTH2, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0, RADIUS	HTTP/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSHv2, SSLv3, TLS v1.2, LDAPv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour, IPV6, WAP 2.0	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/HTTPS, SNMP V1/V2c/V3, SMTP, TCP/IP, Syslog, SNTP, DHCP, SSLv3, AES 256-bit, 3DES, Blowfish, RSA, EDH-RSA, Arcfour
Operating Temperature	32°F to 104°F (0°C to 40°C)	E-5D/E-5DB-IND: 32 to 140°F (0 to 60°C) E-5DB: 32 to 104°F E-5D-IND: 32 to 176°F E-5D-INDLT/IND48VLT: -40 to 185°F	E-2D: 32 to 140°F (0 to 60°C) E-2D-IND: -4 to 167°F (-20 to 75°C)	E-MINI-LXO: 32°F to 104°F (0°C to 40°C) E-MINI-LXO-IND: 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-5D-INDLT/IND48VLT: -40 to 185°F (-40 to 85°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	5 to 90% non-condensing RH	5 to 90% non-condensing RH	5 to 90% non-condensing RH	5 to 90% non-condensing RH	5 to 90% non-condensing RH)	5 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"> • 100 to 240 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"> • 100 to 220 VAC at 50 or 60 Hz via AC adapter. • Dual DC power (second power supply sold separately) • 48V option: accepts 18~72VDC. 	<ul style="list-style-type: none"> • 100 to 220 VAC at 50 or 60 Hz via AC adapter. • Dual DC power (second power supply sold separately) • 24V option: accepts 9~36VDC. 	<ul style="list-style-type: none"> • 110 to 220 VAC at 50 or 60 Hz via AC adapter 	<ul style="list-style-type: none"> • 110 to 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 to 240 VAC at 50 or 60 Hz via AC adapter. • E-1W: Dual DC power (Second power supply sold separately) • E-1WP: Power over Ethernet (PoE), Dual DC power (AC adapters not included, sold separately)

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Languages Supported:	English, German, Chinese, Japanese	English, German, Chinese, Japanese	English, German, Chinese, Japanese	English	English	English
MTBF	89,884 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 Optional DIN rail mounting kit 	<ul style="list-style-type: none"> Mounting hole to match rack hole spacing Optional DIN rail mounting kit
Regulatory Approvals	CE, RoHS TAA compliant	CE, RoHS TAA compliant	CE, RoHS TAA compliant	CE, RoHS TAA compliant	CE, RoHS	CE, RoHS TAA compliant
Warranty	2 years	2 years	2 years	2 years	2 years	2 years
Expandable	✓	✓	✓	✓	✓	✓
Management Software	<ul style="list-style-type: none"> ✓ - Optional E-MNG-xxxx Monitor and configure up to 3,000 E-2D/5D/16D, E-MICRO, E-1W, IPDU-S4/8 units and all connected sensors. 	<ul style="list-style-type: none"> ✓ - Optional E-MNG-xxxx Monitor and configure up to 3,000 E-2D/5D/16D, E-MICRO, E-1W, IPDU-S4/8 units and all connected sensors. 	<ul style="list-style-type: none"> ✓ - Optional E-MNG-xxxx Monitor and configure up to 3,000 E-2D/5D/16D, E-MICRO, E-1W, IPDU-S4/8 units and all connected sensors. 	N/A	<ul style="list-style-type: none"> ✓ - Optional E-MNG-LC Monitor and configure up to 3,000 E-MICRO and E-1W units, and all connected sensors. <ul style="list-style-type: none"> E-MNG-xxxx Monitor and configure up to 3,000 E-2D/5D/16D, E-MICRO, E-1W, IPDU-S4/8 units and all connected sensors 	<ul style="list-style-type: none"> ✓ - Optional E-MNG-LC Monitor and configure up to 3,000 E-MICRO and E-1W units, and all connected sensors. <ul style="list-style-type: none"> E-MNG-xxxx Monitor and configure up to 3,000 E-2D/5D/16D, E-MICRO, E-1W, IPDU-S4/8 units and all connected sensors
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 E-2D/5D/16D 	<ul style="list-style-type: none"> ✓ - Optional Use as standalone unit or as an IP-connected remote sensor for the E-2D/5D/16D

Feature Comparison

Product Feature	E-16D	E-5D	E-2D	E-MINI-LXO	E-MICRO	E-1W
Additional Sensor Ports (not included)	<p>Digital Input/Output Expander (Up to 16 E-DI16DO16 or E-DI16DOR16 units)</p> <ul style="list-style-type: none"> • E-DI16DO16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (open-collector) • E-DI16DOR16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (N.O.) <p>RJ45 RS485 Sensor Expander (Up to 3 E-RJ8-RS485 units)</p> <ul style="list-style-type: none"> • E-RJ8-RS485 <ul style="list-style-type: none"> o 8 RJ45 RS485 ports 	<p>Digital Input/Output Expander (Up to 5 E-DI16DO16 or E-DI16DOR16 units)</p> <ul style="list-style-type: none"> • E-DI16DO16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (open-collector) • E-DI16DOR16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (N.O.) 	<p>Digital I/O Expander (Up to 2 E-DI16DO16 or E-DI16DOR16 units)</p> <ul style="list-style-type: none"> • E-DI16DO16 <ul style="list-style-type: none"> o 16 digital inputs o 16 output relays (open-collector) • E-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 E-DI2-1W digital input expanders can be connected to allow a maximum of 24 additional digital inputs.