Power Relays & Sensors

Power Over Ethernet Adapters

Industrial Power Over Ethernet Adapter

E-POE-IND

- Enables E-2D/5D to be powered over Ethernet connection to a PoE+ switch.
- Delivers power and data up to 328 feet (100 meters) using standard Ethernet cabling.
- Standards: 802.3at
  - The connected switch must be a PoE+ switch.
- Output voltage: selectable, 12VDC or 24VDC
- DIN rail and wall mountable
- Compatible with E-2D/5D only.

AC Voltage Detectors

AC Voltage Detector with Relay

E-ACVDRLY-515
E-ACVDRLY-C14

- Measurement range: detects mains voltage from 50 to 250 VAC.
- Measurement indication: Alarm or Normal.
- Sensor type: open/closed contact switch.
- Includes internal relay.
  - Closes when sensing voltage above 60 VAC
  - Opens when sensing 55 VAC and below.
- Includes 6-foot (1.8-meter) 2-wire cable to connect to the ENVIROMUX system.
- E-ACVDRLY-515: Standard US 120V 10A NEMA 5-15 plug on attached 5.5-foot (1.67-meter) cord.
- E-ACVDRLY-C14: Universal 250V IEC C14 socket on attached 6-inch (0.15-meter) cord.

AC & DC Monitors

AC & DC Voltage & Current Monitor

E-ACDCLM

- Reports AC voltage, AC current, DC voltage and DC current.
  - Current measurements require Hall-Effect transducers (sold separately).
  - Polling rate: 1Sa/s.
- AC voltage 2-pin terminal block
  - 0 to 240VAC 600V isolated
  - 0.25VAC resolution
  - Accuracy to 220VAC: 2.5VAC accuracy
    - 220 to 240VAC: 5.0VAC accuracy
- DC voltage 2-pin terminal block
  - -60 to +60V DC non-isolated
  - 0.12VDC resolution
  - 1.2VDC accuracy
- One rectifying Hall Effect 4-pin transducer interface for measuring AC current
  - 0.2% resolution
  - Accuracy and range are transducer-dependent.
- One non-rectifying Hall Effect 4-pin transducer interface for measuring DC current
  - 0.2% resolution
  - Accuracy and range are transducer-dependent.

AC Dual Voltage Detector

E-ACLM-V

- Reports AC voltage and frequency.
  - Monitors AC voltage and frequency on two AC inlets between 50~250VAC and 47~63Hz.
  - Monitors the number of swells, sags, and spikes.
- Capable of detecting user selected spike events.

DC Voltage Detector

E-S60VDC

- Monitors up to two DC voltages: -60VDC ~ 0VDC or 0VDC ~ 60VDC
- Connector: screw terminal, 5-position

DC Line Monitor

E-DCLM-6

- Reports DC voltage and DC current.
  - Current measurements require Hall-Effect transducers (sold separately).
  - Polling rate: 1Sa/s.
- Six 2-pin terminal blocks for measuring DC voltage
  - Non-isolated -60 to +60V DC
  - 0.12VDC resolution
  - 1.2VDC accuracy
- Six non-rectifying Hall Effect 4-pin transducer interfaces for measuring DC current
  - 0.2% resolution
  - Accuracy and range are transducer-dependent (sold separately).

AC Power Monitor with Relay

E-ACLM-P18
E-ACLM-P12
E-ACLM-P8

- Reports AC voltage, frequency, power, and current.
  - Monitors power from one AC inlet to one AC outlet, between 50~250VAC and 47~63Hz.
  - Monitors the number of swells, sags, and spikes.
- Includes relay with configurable disconnect settings: threshold reboot or manual reboot.
- Outlet Max load rating (continuous):
  - E-ACLM-P18 (US/Canada): 18A rated load, 20A integrated breaker.
  - E-ACLM-P12 (US/Canada): 12A rated load, 15A integrated breaker.
  - E-ACLM-P8 (Euro/UK): 8A rated load, 10A integrated breaker.
- Capable of measuring current surges from 300mA to 20A.
- Capable of detecting user selected spike events.

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Power Relays & Sensors

3-Phase Power Monitors

3-Phase AC Power Monitor

E-ACLM-3P480

- Reports True RMS Voltage, RMS Current, Active Power and Reactive Power.
- Three 2-wire terminal blocks provided for easy attachment of optional current transformers with 16-26AWG wires (sold separately)
  - The use of split-core current transformers allows installation without disconnecting conductors.
- Input primary voltage: Up to 552 VAC RMS, 2000VDC Isolated
  - 4-wire terminal block provided for bare-wire or crimp terminal attachment of primary voltage sample.

AC Current Transformers

Hinged Split-Core AC Current Transformers

E-CT500-SC36

- Measures AC current.
- Split-core design is ideal for installing on existing electrical wiring by snapping around the conductor.
- Output voltage: 333mV
- Frequency: 50/60Hz
- Galvanic isolation: 3kV
- Operating temperature: -4 to 131°F (-20 to 55°C)
- Storage temperature: -40 to 158°F (-40 to 70°C)

Hall-Effect Sensors

Hall-Effect Current Sensors, Solid-Core

E-AMPxx-6-5

- Measures both AC and DC currents using a solid-core system.
  - Available rated currents: 10A, 20A, and 50A.
    - Contact an NTI product consultant for other available ratings between 10A and 50A.
- Common applications include: monitoring AC variable speed drives, static converters for DC motor drives, battery supplied applications, uninterruptible power supplies (UPS), switched mode power supplies (SMPS), electrochemical systems, and power supplies for welding applications.
- Includes a 7-ft 4-wire cable for connecting to the E-ACDCLM or E-DCLM-6.
- Loop diameter: 0.26” (6.5mm).
- Comes with two 0.08” (2mm) diameter mounting holes.

Hall-Effect Current Sensors, Split-Core

E-AMPxx-SC21

- Measures both AC and DC currents using a split-core system.
  - Available rated currents: 30A, 50A, 100A, 200A, and 500A.
    - Contact an NTI product consultant for other available ratings between 30A and 500A.
- Common applications include: monitoring AC variable speed drives, static converters for DC motor drives, battery supplied applications, uninterruptible power supplies (UPS), switched mode power supplies (SMPS), electrochemical systems, and power supplies for welding applications.
- Includes a 7-ft 4-wire cable for connecting to the E-ACDCLM or E-DCLM-6.
- Loop diameter: 0.83” (21mm).
- Comes with two 0.2” (5mm) diameter open-slotted mounting holes.

Power Relays & Sensors

Hall-Effect Sensors (continued)

Hall-Effect Current Sensors, Split-Core

E-AMPxx-SC12

- Measures DC currents using a split-core system.
  - Available rated currents: 50A, 100A, 200A, 300A, 400A.
    - Contact an NTI product consultant for other available ratings between 50A and 400A.
- Common applications include: monitoring AC variable speed drives, static converters for DC motor drives, battery supplied applications, uninterruptible power supplies (UPS), switched mode power supplies (SMPS), electrochemical systems, and power supplies for welding applications.
- Includes a 7ft 4-wire cable for connecting to the E-ACDCLM or E-DCLM-6.
- Loop diameter: 0.47” (12mm).

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