# Power Relays & Sensors

## Power Over Ethernet Adapters

**Industrial Power Over Ethernet Adapter**

- 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**

- Measurement range: detects mains voltage from 50 to 250 VAC.
- Measurement indication: Alarm or Normal.
- Sensor type: open/closed contact switch.

**E-ACVDRLY-515**
- Includes internal relay.
  - Closes when sensing voltage above 60 VAC
  - Opens when sensing 55 VAC and below.

**E-ACVDRLY-C14**
- 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.
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3-Phase Power Monitors

3-Phase AC Power Monitor

- 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

- 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)

Split-Core AC Current Transformer, Removable Top

- Measures AC current.
- Split-core design is ideal for installing on existing electrical wiring by snapping around the conductor.
- Rated current: 2000A
- Frequency: 50/60Hz
- Galvanic isolation: 3kV
- Operating temperature: -4 to 131°F (-20 to 55°C)

Hall-Effect Sensors

Hall-Effect Current Sensors, Solid-Core

- 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

- 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.
Hall-Effect Current Sensors, Split-Core

- 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.

**E-AMPxx-SC12**

- 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).