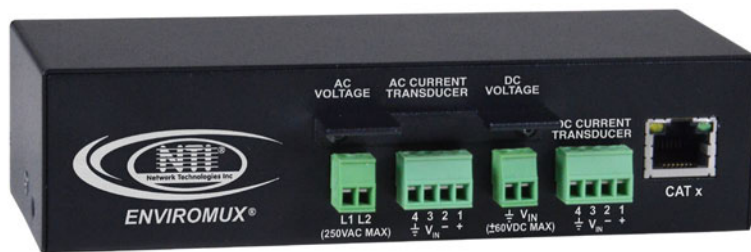


AC & DC Voltage & Current Monitor

ENVIROMUX®

AC & DC Voltage & Current Monitor

- Reports AC voltage, AC current, DC voltage and DC current.
 - Current measurements require Hall-Effect transducers (sold separately).
 - Polling rate: 1Sa/s.
- Common applications include: electrical systems, power equipment, battery monitoring, generators, remote sites, controlled environment vaults (CEVs), building automation, data center, cabinets, telecom, substations, storage power supplies, communication huts, indoor/outdoor lighting, power distribution, and medical and test equipment.
- AC voltage 2-pin terminal block
 - 0 to 240VAC 600V isolated
 - 0.25VAC resolution
 - Accuracy
 - ◆ 0 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 (sold separately).
- One non-rectifying Hall Effect 4-pin transducer interface for measuring DC current
 - 0.2% resolution
 - Accuracy and range are transducer-dependent (sold separately).
- Supports CAT5/5e/6 cable up to 1,000 ft (305 m).
- Dimensions WxDxH (in): 6.2x2.3x1.6 (158x58x41 mm).
- Powered by ENVIROMUX-2D/5D/16D.
- Regulatory approvals: CE, RoHS.
- Compatible with ENVIROMUX-FSC Fiber Converter/Extender.
 - Use to extend the monitor up to 1.2 miles (2km) from the ENVIROMUX unit.



ENVIROMUX-ACDCLM

The AC & DC Voltage & Current Monitor measures and reports AC and DC voltage, and reports AC and DC current measured with attached Hall-Effect transducers (sold separately) to the ENVIROMUX-2D/5D/16D unit.

AC & DC Voltage & Current Monitor	
NTI Part #	Description
ENVIROMUX-ACDCLM	AC & DC Voltage & Current Monitor

Hall-Effect Current Sensors, Solid-Core, 6.5mm Loop Diameter



ENVIROMUX-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 7ft 4-wire cable for connecting to the ENVIROMUX-ACDCLM.
 - To extend the distance between the hall-effect sensor and the ENVIROMUX-ACDCLM, simply connect longer wires (22AWG) using the included splices.
 - ◆ It is recommended to place the ENVIROMUX-ACDCLM as close to the hall-effect sensor as possible. The ENVIROMUX-ACDCLM can be placed up to 1000 ft away from the ENVIROMUX-2D/5D/16D unit using CAT5/5e/6 cable.
- Loop diameter: 0.26" (6.5mm).
- Response time: $\leq 1\mu\text{S}$ @ 50A/ μS , 10%-90%.
- Galvanic isolation: 2.5KV @ 50Hz, AC, 1min.
- Supply voltage: $\pm 12\text{V}$, $\pm 15\text{V}$.
- Output voltage: $\pm 4\text{V}$.
- Power consumption: $\leq 25\text{mA}$.
- Comes with two 0.08" (2mm) diameter mounting holes.
- Dimensions WxDxH (in): 0.98x1.26x0.98 (25x32x25mm).
- Operating temperature: -40 to 185°F (-40 to 85°C).
- Storage temperature: -40 to 257°F (-40 to 125°C).

Hall-Effect Current Sensors, Split-Core, 12mm Loop Diameter



ENVIROMUX-AMPxx-SC12

- Measures AC and 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 ENVIROMUX-ACDCLM or ENVIROMUX-DCLM-6.
 - To extend the distance between the hall-effect sensor and the ENVIROMUX-ACDCLM or ENVIROMUX-DCLM-6, simply connect longer wires (22AWG) using the included splices.
 - ◆ It is recommended to place the ENVIROMUX-ACDCLM or ENVIROMUX-DCLM-6 as close to the hall-effect sensor as possible. The ENVIROMUX-ACDCLM and ENVIROMUX-DCLM-6 can be placed up to 1000 ft away from the ENVIROMUX-2D/5D/16D unit using CAT5/5e/6 cable.
- Loop diameter: 0.47" (12mm)..
- Response time: $\leq 7\mu\text{S}$ @ 50A/ μS , 10%-90%.
- Galvanic isolation: 2.5KV @ 50Hz, AC, 1min.
- Supply voltage: $\pm 12\text{V}$, $\pm 15\text{V}$.
- Output voltage: $\pm 4\text{V}$.
- Current consumption: $\leq 25\text{mA}$.
- Dimensions WxDxH (in): 1.81x0.63x1.46 (46x16x37mm).
- Operating temperature: -13 to 185°F (-25 to 85°C).
- Storage temperature: -40 to 212°F (-40 to 100°C).

Hall-Effect Current Sensors, Solid-Core, 6.5mm Loop Diameter

NTI Part #	Rated Current	Loop Diameter
ENVIROMUX-AMP10-6-5	10A	0.26" (6.5mm)
ENVIROMUX-AMP20-6-5	20A	0.26" (6.5mm)
ENVIROMUX-AMP50-6-5	50A	0.26" (6.5mm)

Hall-Effect Current Sensors, Split-Core, 12mm Loop Diameter

NTI Part #	Rated Current	Loop Diameter
ENVIROMUX-AMP50-SC12	50A	0.47" (12mm)
ENVIROMUX-AMP100-SC12	100A	0.47" (12mm)
ENVIROMUX-AMP200-SC12	200A	0.47" (12mm)
ENVIROMUX-AMP300-SC12	300A	0.47" (12mm)
ENVIROMUX-AMP400-SC12	400A	0.47" (12mm)

Note: Contact an NTI product consultant for hall-effect sensors in other sizes and ratings.

Hall-Effect Current Sensors, Split-Core, 21mm Loop Diameter



ENVIROMUX-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 7ft 4-wire cable for connecting to the ENVIROMUX-ACDCLM.
 - To extend the distance between the hall-effect sensor and the ENVIROMUX-ACDCLM, simply connect longer wires (22AWG) using the included splices.
 - ♦ It is recommended to place the ENVIROMUX-ACDCLM as close to the hall-effect sensor as possible. The ENVIROMUX-ACDCLM can be placed up to 1000 ft away from the ENVIROMUX-2D/5D/16D unit using CAT5/5e/6 cable.
- Loop diameter: 0.83" (21mm).
- Response time: $\leq 5\mu\text{S}$ @ 50A/ μS , 10%-90%.
- Galvanic isolation: 2.5KV @ 50Hz, AC, 1min.
- Supply voltage: $\pm 12\text{V}$, $\pm 15\text{V}$.
- Output voltage: $\pm 4\text{V}$.
- Power consumption: $\leq 25\text{mA}$.
- Comes with two 0.2" (5mm) diameter open-slotted mounting holes.
- Dimensions WxDxH (in): 2.36x0.63x2.40 (60x16x61mm).
- Operating temperature: -40 to 185°F (-40 to 85°C).
- Storage temperature: -40 to 257°F (-40 to 125°C).

Hall-Effect Current Sensors, Split-Core, 21mm Loop Diameter

NTI Part #	Rated Current	Loop Diameter
ENVIROMUX-AMP30-SC21	30A	0.83" (21mm)
ENVIROMUX-AMP50-SC21	50A	0.83" (21mm)
ENVIROMUX-AMP100-SC21	100A	0.83" (21mm)
ENVIROMUX-AMP200-SC21	200A	0.83" (21mm)
ENVIROMUX-AMP500-SC21	500A	0.83" (21mm)

Note: Contact an NTI product consultant for hall-effect sensors in other sizes and ratings.