

AC & DC Monitor Hall-Effect Transducers

ENVIROMUX®

Hall-Effect Transducers compatible with ENVIROMUX-ACDCLM and ENVIROMUX-DCLM-6

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-DCLM-6
 - To extend the distance between the hall-effect sensor and the ENVIROMUX-DCLM-6, simply connect longer wires (22AWG) using the included splices.
 - ◆ It is recommended to place the ENVIROMUX-DCLM-6 as close to the hall-effect sensor as possible. The 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: 0.26" (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: $\leq 40\text{mW}$.
- 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-DCLM-6.
 - To extend the distance between the hall-effect sensor and the ENVIROMUX-DCLM-6, simply connect longer wires (22AWG) using the included splices.
 - ◆ It is recommended to place the ENVIROMUX-DCLM-6 as close to the hall-effect sensor as possible. The 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: $\leq 7\mu\text{s}$.
- 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 Transducers compatible with ENVIROMUX-ACDCLM and ENVIROMUX-DCLM-6

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



ENVIROMUX-AMPxx-SC21

- Measures 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-DCLM-6.
 - To extend the distance between the hall-effect sensor and the ENVIROMUX-DCLM-6, simply connect longer wires (22AWG) using the included splices.
 - ♦ It is recommended to place the ENVIROMUX-DCLM-6 as close to the hall-effect sensor as possible. The 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: 0.83" (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.