

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

- 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).
- Supports CAT5/5e/6 cable up to 1,000 ft (305 m).
- Powered by ENVIROMUX-2D/5D/16D.
- Dimensions WxDxH (in): 6.82x3x1.71" (173x76x43 mm).
- Regulatory approvals: CE, RoHS.
- Compatible with ENVIROMUX-FSC Fiber Converter/Extender.
  - Use to extend sensor up to 1.2 miles (2km) from the ENVIROMUX unit.



**ENVIROMUX-DCLM-6**

### DC Line Monitor

NTI Part #	Description
ENVIROMUX-DCLM-6	DC Line Monitor

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



**ENVIROMUX-AMPxx-6-5**

- Measures 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 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/ $\mu\text{S}$ , 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, 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)

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

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

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



#### ENVIROMUX-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 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, Split-Core, 21mm Loop Diameter



#### ENVIROMUX-AMPxx-SC21

- Measures 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 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/ $\mu\text{S}$ , 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, 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)

### 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.