



INSTALLATION GUIDE FOR THE ENVIROMUX-S5VDC

INTRODUCTION

The NTI ENVIROMUX-S5VDC Voltage Sensor Adapter monitors DC voltage sources (up to two) when connected to an ENVIROMUX-SEMS-16. The voltage sources can be anything with a range between 0 to 5VDC. When connected to an ENVIROMUX-SEMS-16 via CAT5/5e/6 cable (up to 1,000 feet away), the voltage source(s) can be monitored and the ENVIROMUX-SEMS-16 can be configured to alert users as to variations in the voltage levels.

Features:

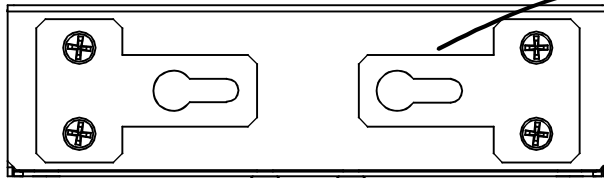
- Detects and monitors up to two DC voltages, each with a range of 0 to 5VDC
- Provides 12VDC, 25mA for each sensor
- 8-position screw-terminal connection
- Supports CAT5/5e/6 cable up to 1,000 ft. (not included)
- Includes Mounting Ears
- CE certified
- RoHS compliant

Note: The ENVIROMUX-SEMS-16 must be running firmware version 2.8 or later in order to use the ENVIROMUX-S5VDC with it. Refer to the ENVIROMUX-SEMS-16 manual for firmware upgrade instructions as needed.

INSTALLATION

Mount the ENVIROMUX-S5VDC using the mounting ears provided. To use the ears, remove the screws securing the ears to the rear of the ENVIROMUX-S5VDC, turn the ears around, and reapply the screws. Alternatively, secure one ear to holes on the bottom of the unit so that it can be hung as shown in the image below.

Rear View of ENVIROMUX-S5VDC



Mounting ears
as received from NTI

Rear View of ENVIROMUX-S5VDC

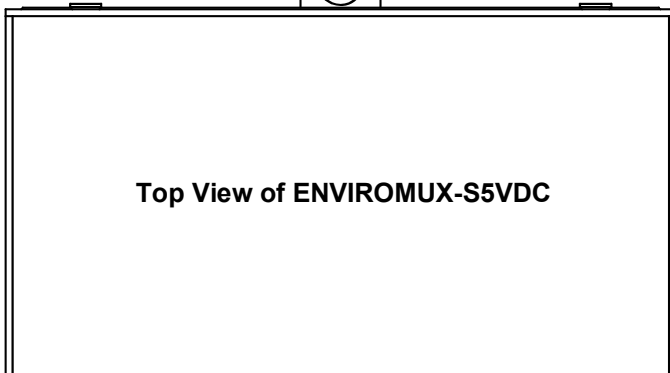


Remove screws,
rotate ears,
reapply screws,
mount as desired

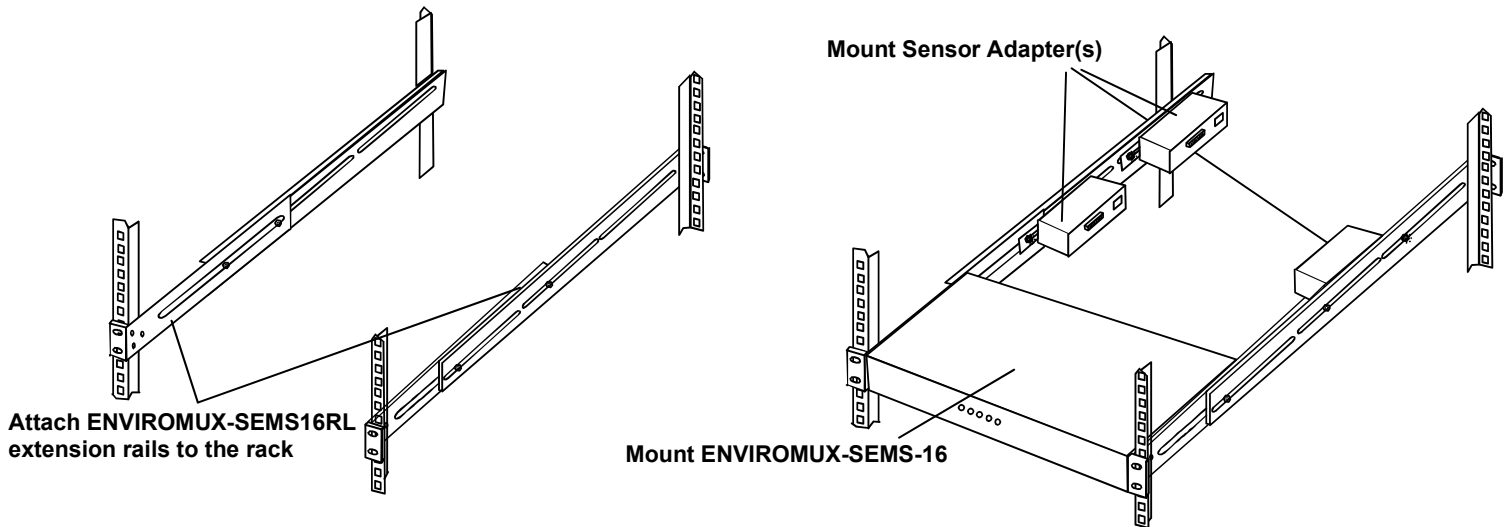


Mounting ear can also be applied to bottom
such that the sensor adapter can be hung
from one mounting ear

Top View of ENVIROMUX-S5VDC



To mount multiple Sensor Adapters in close proximity to the ENVIROMUX-SEMS-16, install an extension rail kit (NTI ENVIROMUX-SEMS16RL - sold separately) and mount Sensor Adapters as seen in the illustration below.

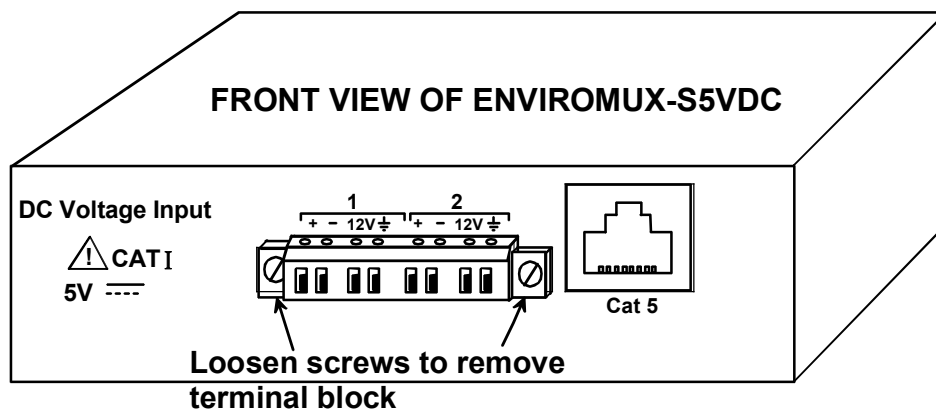


CONNECTION

Note: To prevent damage to the voltage source or the Sensor Adapter proper polarity must be observed when making connections.

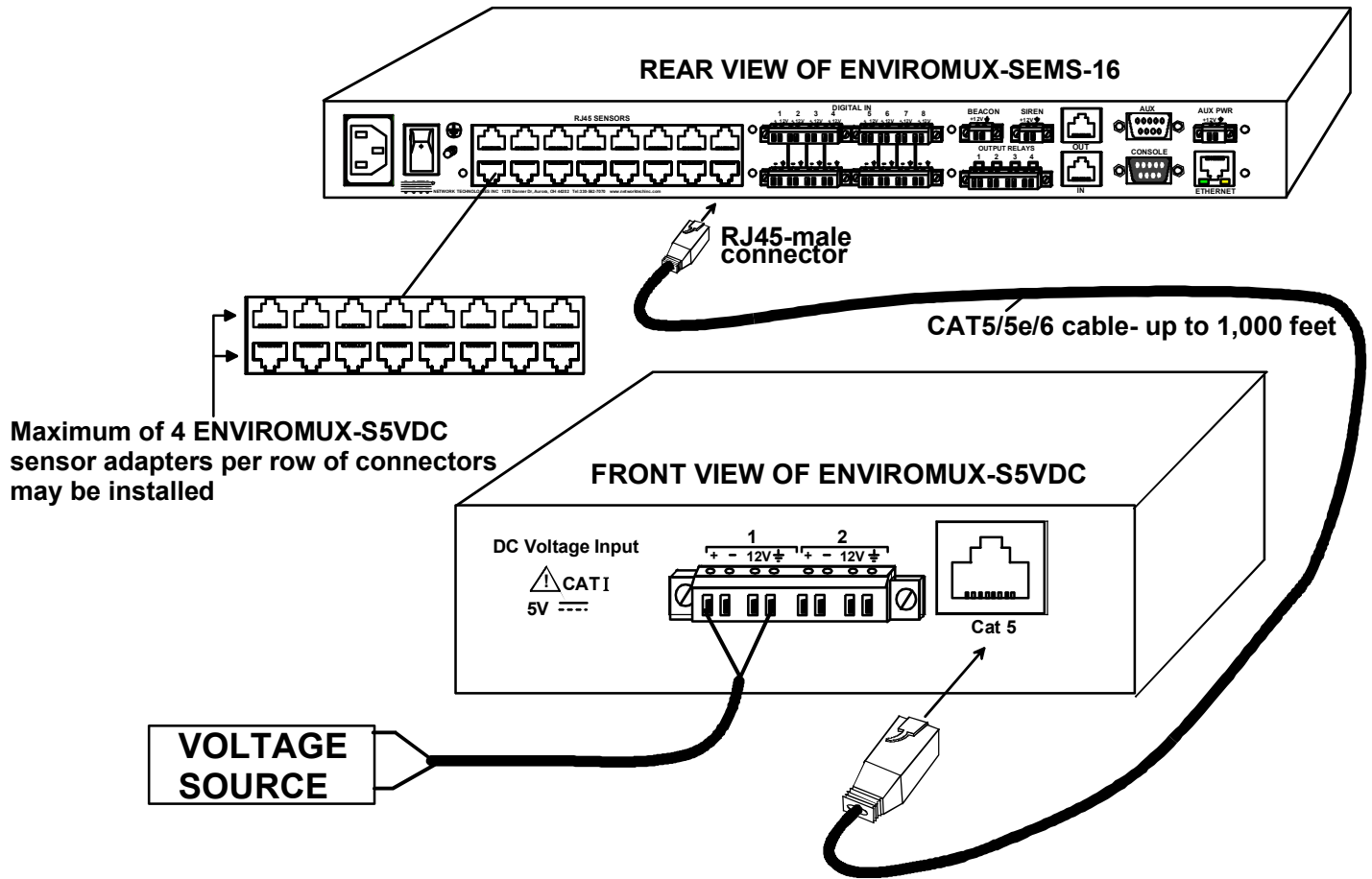
1. Connect a 0-5VDC voltage source to be monitored to the “+” and “ $\frac{-}{\perp}$ ” (earth ground) connections of either input 1 or input 2 on the removable terminal block.
2. If the 0-5VDC voltage source is also a sensor (such as the ENVIROMUX-AV) requiring external 12VDC power, then connect its power terminals to the “12V” and “ $\frac{-}{\perp}$ ” (earth ground) on the removable terminal block.

Note: The wire connection terminal block is easily removed from the Voltage Sensor Adapter for convenient wire termination.

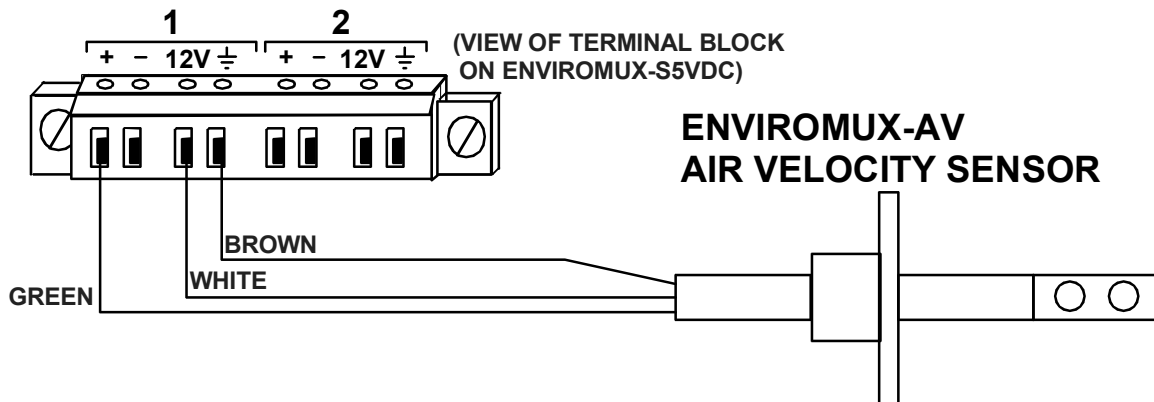


3. Connect a CAT5/5e/6 patch cable (up to 1,000 feet long) between the “Cat 5” port on the Voltage Sensor Adapter and an “RJ45 Sensor” port on the ENVIROMUX-SEMS-16.

Note: A maximum of eight (8) Sensor Adapters may be connected to an ENVIROMUX-SEMS-16. Up to four (4) may be connected to RJ45 Sensor ports 1-8, and up to four (4) more to RJ45 Sensor ports 9-16.



VOLTAGE SOURCE CONNECTED TO ENVIROMUX-S5VDC



ENVIROMUX-S5VDC WITH ENVIROMUX-AV CONNECTED

4. Configure the ENVIROMUX-SEMS-16 to react to changes in the voltage from the source, as desired.

TROUBLESHOOTING

Problem	Solution
Message "OUT OF RANGE" appears in sensor status page	<ul style="list-style-type: none">Measured voltage has exceeded the 0 to 5VDC limits

TECHNICAL SPECIFICATIONS

Description	Specification
Measurement Range	0 to 5VDC
Accuracy	±1% of reading
Resolution	1.22mV
Input Impedance	20K ohms
Power	Powered by ENVIROMUX-SEMS-16
Size (In.) W x D x H	4.15 x 2.3 x 1.2

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CHANGES

The material in this guide is for information only and is subject to change without notice. Network Technologies Inc reserves the right to make changes in the product design without reservation and without notification to its users.

WARRANTY INFORMATION

The warranty period on this product (parts and labor) is two (2) years from date of purchase. Please contact Network Technologies Inc at (800) 742-8324 or 330-562-7070 for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.

MODEL NO: ENVIROMUX-S5VDC

SERIAL NO: _____

DATE: _____

INSPECTED BY: _____