



INSTALLATION GUIDE FOR THE E-AV-LC-7

INTRODUCTION

The NTI ENVIROMUX® E-AV-LC-7 Air Velocity Sensor monitors air flow rate when connected to an E-16D, E-5D or E-2D Enterprise Environment Monitoring System (SYSTEM). When connected to a SYSTEM via the 7 foot cable provided, the air flow rate can be monitored and the SYSTEM can be configured to alert users as to variations in that movement.

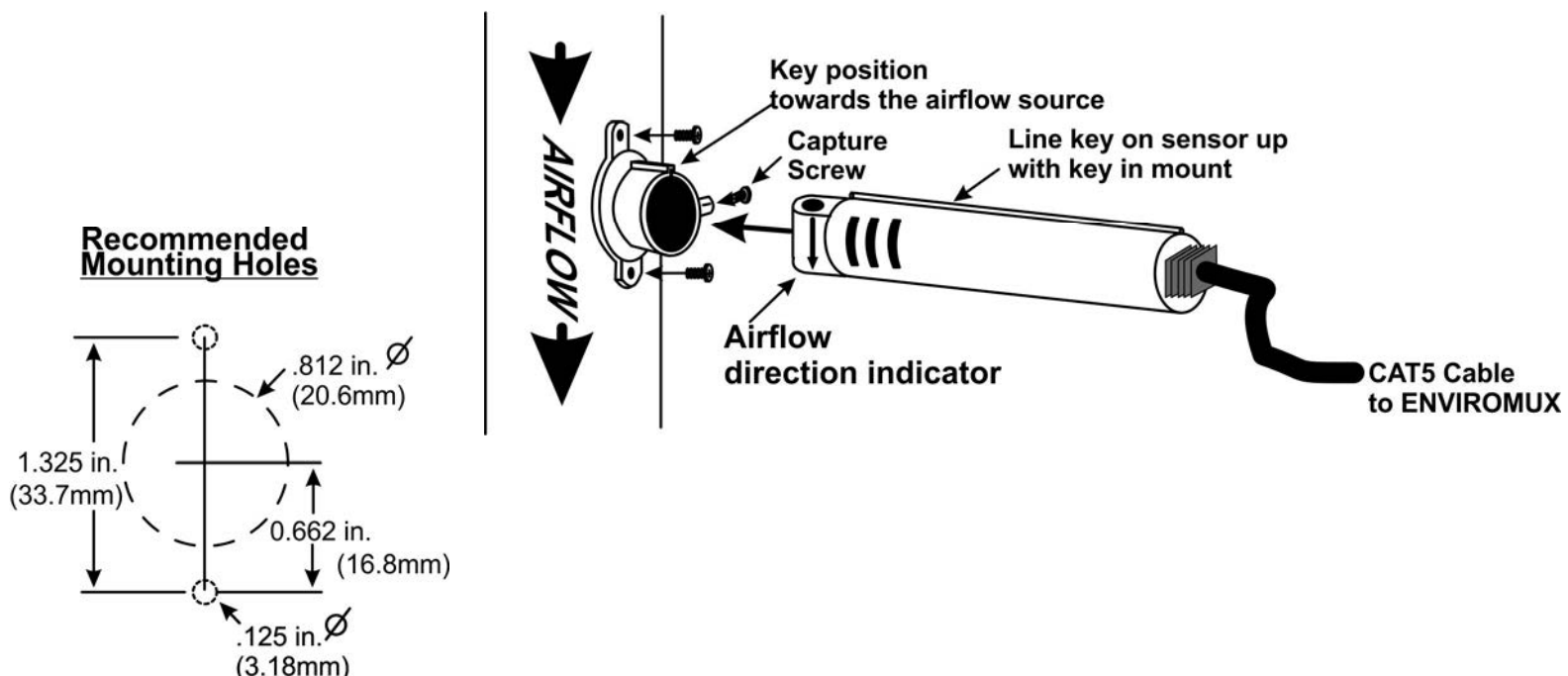
Note: The E-xD must be running firmware version 2.10 or later in order to use the E-AV-LC-7 with it. Refer to the E-xD manual for firmware upgrade instructions as needed.

Features:

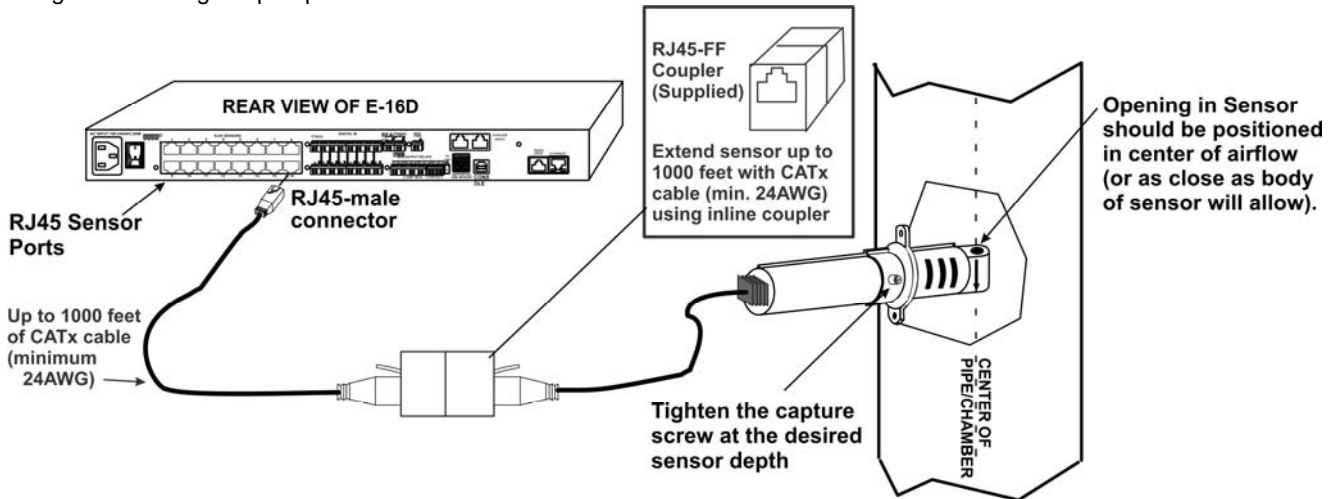
- Reliable sensor for measurement of air velocity.
- Flow range: 0-82 ft/s (0-25 m/s).
- Accuracy: ± 1.3 ft/s (0.4 m/s) + 15% of measured value from 0 to 49 ft/s (0 to 15 m/s) at 77°F (25°C).
- Includes mounting hardware.
- Operating temperature: 32 to 158°F (0 to 70°C).
- Probe dimensions: 6.3x0.6 inches (160x15 mm).
- Probe material: PA 2200.
- Cable length of 7 feet, but can be extended to 1000 feet (use NTI# RJ45-FF - included)
- Powered by E-2D/5D/16D.
- Compatible with E-2D/5D/16D.
 - E-2D: only compatible with Rev C units (features two power inputs).
- Regulatory approvals: CE, RoHS.
- Compatible with E-FSC Fiber Converter/Extender.
 - Use to extend sensor up to 1.2 miles (2 km) from the ENVIROMUX unit.

INSTALLATION

E-AV-LC-7 can be mounted using the mounting adapter provided. When mounting the adapter, be sure to align the mounting screws in line with the air flow. The key should be positioned towards the source of the airflow.



The sensor can be mounted at any depth, but for best performance position the sensor such that the opening in the sensor body is in the center of the airflow chamber. The body of the sensor will allow for centering in a chamber as deep as 11 inches when using the mounting adapter provided.



WARNING: To avoid damaging the E-AV-LC-7 Air Velocity Sensor, it should **only be operated** where it will sense at least some air flow (≥ 8.2 ft/s (2.5 m/s)) daily.

CONNECTION

Connect the cable on the E-AV-LC-7 to any available "RJ45 Sensor" port on the SYSTEM.

CONFIGURATION

Configure the SYSTEM to react to changes in the air velocity measured by the sensor, as desired. See example on page 3.

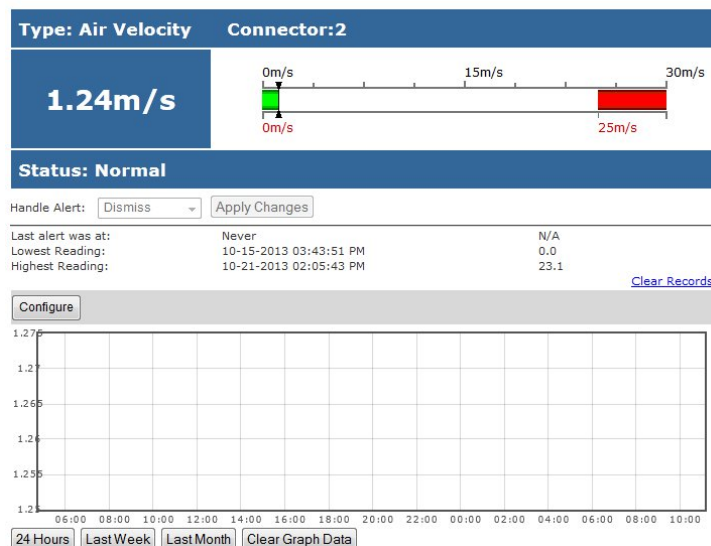
Summary

Internal Sensors					
No.	Description	Type	Value	Status	Action
1	E-5D-IND Internal Temperature	Temperature	82.7°F	Normal	View Edit
2	Internal Humidity	Humidity	12%	Normal	View Edit

Sensors					
Conn.	Description	Type	Value	Status	Action
1	Lab Bench Temperature	Temperature Combo	76.1°F	Normal	View Edit Delete
1	E-5D-IND Humidity	Humidity Combo	19%	Normal	View Edit Delete
2	Sensor #2.1	Air Velocity	0.95m/s	Normal	View Edit Delete

AIR VELOCITY SENSOR VIEWED ON SUMMARY PAGE

Sensor #2.1 Status



VIEW OF SENSOR STATUS PAGE

Sensor #2.1 Configuration (Type: Air Velocity)

[-] Sensor Settings	
Description	<input type="text" value="Sensor #2.1"/> Descriptive name for the sensor
Min. Level	<input type="text" value="0.0"/> Min. supported value for the sensor
Max. Level	<input type="text" value="30.0"/> Max. supported value for the sensor
Min. Non-Critical Threshold	<input type="text" value="0.0"/> Min. threshold below which indicates a non-critical alert condition
Max. Non-Critical Threshold	<input type="text" value="25.0"/> Max. threshold above which indicates a non-critical alert condition
Min. Critical Threshold	<input type="text" value="0.0"/> Min. threshold below which indicates an alert condition
Max. Critical Threshold	<input type="text" value="25.0"/> Max. threshold above which indicates an alert condition
Refresh Rate	<input type="text" value="10"/> <input type="text" value="Sec"/> <input type="button" value="v"/> The refresh rate at which the sensor view is updated
[+] Group Settings	
[+] Schedule Settings	
[+] Non-Critical Alert Settings	
[+] Critical Alert Settings	
[+] Data Logging	
<input type="button" value="Save"/>	
Alert Simulation	
<input type="button" value="Simulate Alert"/> <input type="button" value="Clear Alert"/>	

EXAMPLE OF SENSOR CONFIGURATION PAGE

TECHNICAL SPECIFICATIONS

Description	Specification
Measurement Medium	air velocity
Flow Range	0-82 ft/s (0-25 m/s).
Connector	RJ45 Male
Cable Length	7 feet (+ coupler to extend up to 1000 feet)
Accuracy	±1.3 ft/s (0.4 m/s) + 15% of measured value from 0 to 49 ft/s (0 to 15 m/s) at 77°F (25°C)
Operating temperature	32 to 158°F (0 to 70°C)
Power	5VDC and 12VDC from the SYSTEM
Current consumption	5V @ 15mA and 12V @ 60mA
Compatible with	E-2D / -5D / -16D
Powered by	E-2D (REV C only) / -5D / -16D
Probe dimensions	6.3x0.6 inches (160x15 mm)
Probe material	PA 2200 Plastic
Certifications	CE certified, RoHS compliant

WARNING: To avoid damaging the E-AV-LC-7 Air Velocity Sensor, it should **only be operated** where it will sense at least some air flow (≥ 8.2 ft/s (2.5 m/s)) daily.

TRADEMARK

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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.