



**NETWORK
TECHNOLOGIES
INCORPORATED**

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ENVIROMUX[®] Series

E-CO2-LC

Carbon Dioxide Sensor

Installation and Operation Manual



TRADEMARK

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CHANGES

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INTRODUCTION

E-CO2-LC carbon dioxide sensor adopts a new type of infrared verification technology for CO₂ concentration measurement, and the response rapid and sensitive. This carbon dioxide sensor includes an ABS waterproof shell. It is a professional industrial CO₂ sensor and supports 0-5VDC output. This is a wall-mounted CO₂ sensor that can be used in greenhouses, industrial waste gas monitoring, farming monitoring, etc.

Features:

- Measures CO₂ in a range of 0 to 5,000 ppm.
 - Accuracy: $\pm(3\%$ of reading + 50ppm) at 77° F (25° C)
 - Sensing element: Single Beam Non-Dispersive Infrared (NDIR)
- 0 to 5 VDC output.
- Includes 12V/1A power supply.
- Current consumption: 60mA @ 12VDC.
- Weatherproof enclosure.
 - IP65-rated water and dust protection.
- Operating temperature: 14 to 122° F (-10 to 50° C).
- Operating relative humidity: 0 to 80% non-condensing RH.
- Regulatory approvals: CE
- Requires the [E-S5VDC](#) sensor converter to operate with E-2D/5D/16D.
 - E-S5VDC maximum cable length: 1000 ft (305 m).
 - E-S5VDC powered by E-2D/5D/16D.

MATERIALS

Materials supplied with this kit:

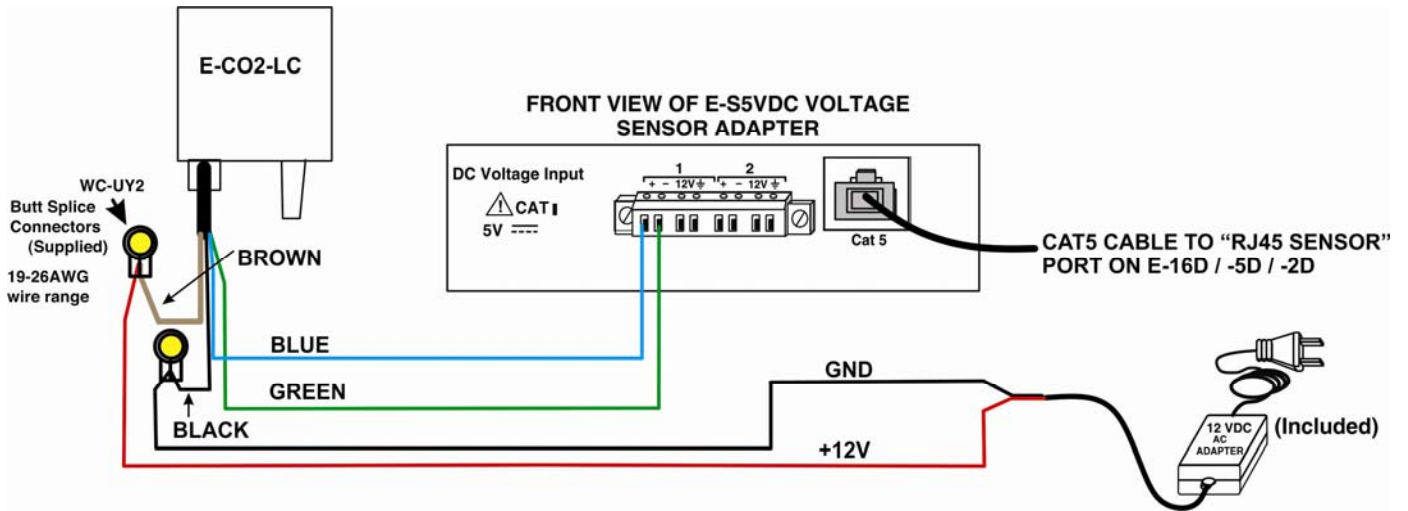
- NTI ENVIROMUX E-CO2-LC Carbon Dioxide Sensor
- 110-240VAC, 50 or 60Hz-12VDC/1A AC Adapter With Country-specific line cord
- Wall Mount Hardware
- 2- WC-UY2 Butt Splices
- URL Slip with path to ENVIROMUX sensor manuals

Materials *Not* supplied but **REQUIRED**:

ENVIROMUX E-S5VDC 0-5VDC Sensor Converter (Sold separately)

WIRING

Purpose	Color	Signal
Power Supply	Brown	Power- Positive
	Black	Power-Negative
CO2 Signal	Blue	Signal- Positive
	Green	Signal- Negative



Sensor Settings

Description: Server Rack CO2 Sensor
Descriptive name for the sensor

Min. Level: 0.0
Min. supported value for the sensor

Max. Level: 5.0
Max. supported value for the sensor

Associate Sensor: Associate sensor to a customized sensor type

Associated Sensor Type: CO2 Sensor
Type of the associated sensor

Associated Sensor Unit: PPM
Measurement unit for the associated sensor

SNMP Associated Type ID: 32767
ID value for SNMP type of associated sensor

Min. Associated Level: 0.000000
Sensor expected value corresponding to 0V

Max. Associated Level: 5000
Sensor expected value corresponding to 5V

Min. Non-Critical Threshold:
Min. threshold below which indicates a non-critical alert condition

Max. Non-Critical Threshold:
Max. threshold above which indicates a non-critical alert condition

Min. Critical Threshold:
Min. threshold below which indicates an alert condition

Max. Critical Threshold:
Max. threshold above which indicates an alert condition

Refresh Rate: 1 Sec
The refresh rate at which the sensor view is updated

(Example of sensor configuration in E-xD)

TECHNICAL SPECIFICATIONS

Detection Range	0-5000 ppm
Accuracy	±50ppm+3% Full scale) at 25°C
Stability	<2%F-S
Non-linearity	<1%F-S
Response time	90% step change is generally less than 90S
Data update time	2s
System warm-up time	2 minutes (ready to function/; 10 minutes (maximum accuracy)
Power	10 to 30VDC (110-240VAC, 50 or 60Hz-12VDC/1A AC Adapter supplied)
Current Draw	60mA (@12VDC)
Output Signal	0-5VDC
Operating Temperature	-10° to 50°C
Operating Relative Humidity	0 to 80% RH non-condensing
Enclosure Material	ABS Plastic, IP65
Size WxDxH	4.33x1.73x3.35 in. (110x44x85mm)
Approvals	CE

Note: This sensor will provide indication of the presence of carbon dioxide to an ENVIROMUX Enterprise Environment Monitoring System (E-16D/-5D/-2D) when connected through an E-S5VDC sensor converter.

WARRANTY INFORMATION

The warranty period on this product (parts and labor) is two (2) years from the date of purchase. Please contact Network Technologies Inc at **(800) 742-8324** (800-RGB-TECH) or **(330) 562-7070** or visit our website at <http://www.networktechinc.com> for information regarding repairs and/or returns. A return authorization number is required for all repairs/returns.