CARBON DIOXIDE (CO_2) TRANSMITTER

User Guide for SRAQ-D152

Product Description

The SRAQ-D152 sensor uses NDIR technology to detect the CO_2 concentration in the air and transmits a corresponding 4 – 20mA current signal. The device has a sensing range of 400 – 2000 ppm, 1m cable and can be easily mounted to a wall of other flat surface. Uses include factory floors, laboratories, server rooms, office and commercial buildings or other areas where CO_2 concentration is a concern.

Features

- NDIR technology sensor
- High accuracy and good stability
- 4 – 20mA output
- Detection range 400 – 2000 ppm
- Easy wall-mount installation

Applications

- Monitoring indoor air quality
- HVAC systems
- Agriculture and livestock industry
- Horticulture
- Office and commercial buildings
- Smart home and IOT applications

Thank you for choosing L-com product. To ensure safe, accurate performance and product longevity, please take a moment to familiarize yourself with this manual before powering the device. Please keep it handy for future reference. In case of any questions regarding the installation or use of product, please call us at 800.341.5266.

Reach out to us at customerservice@l-com.com and visit our website at www.l-com.com

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Technical Parameters

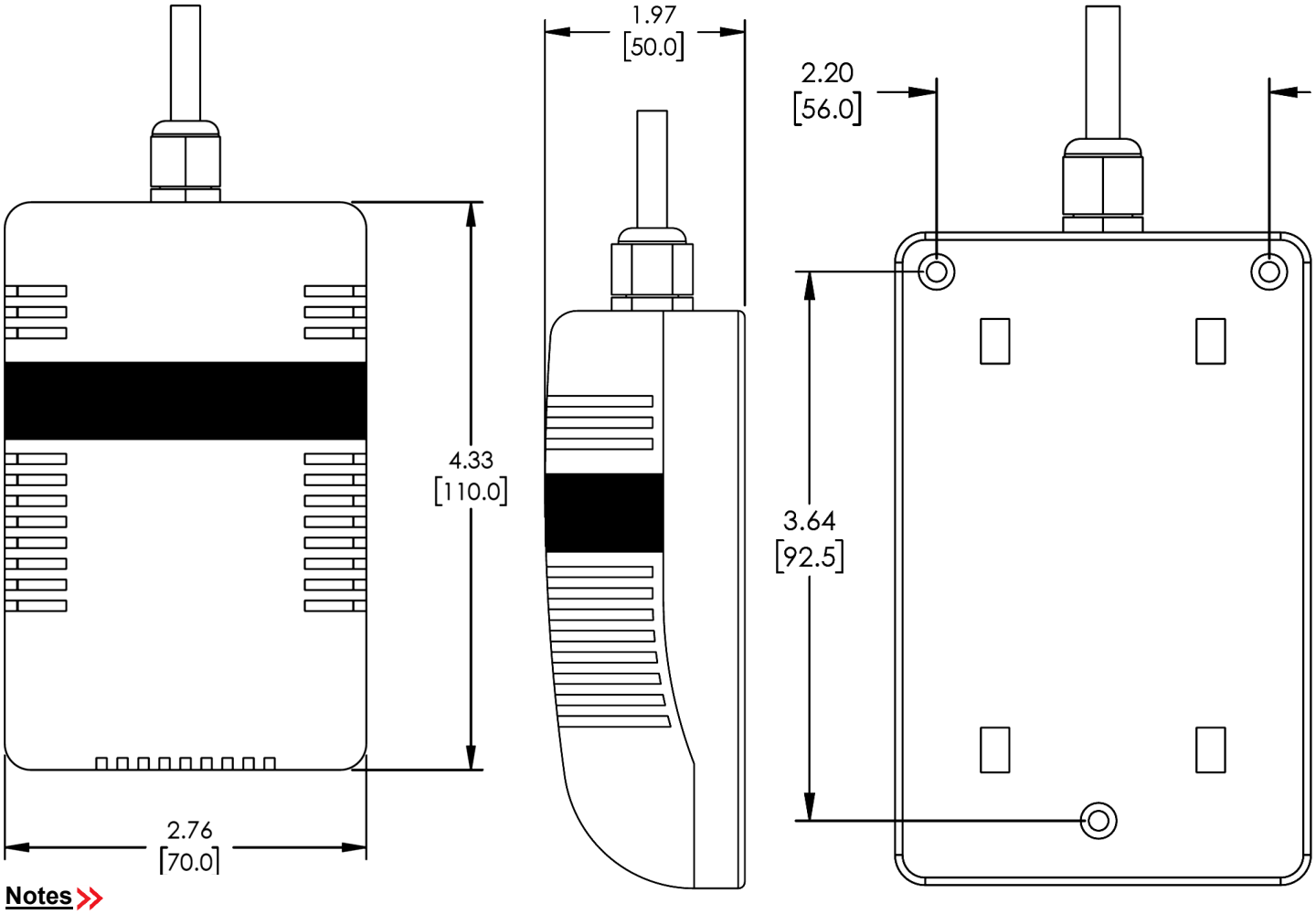
Working Voltage	12 – 24 VDC	
Working Current	<150 mA	
Output Mode	4 – 20 mA	
Measuring Range	400 – 2000 ppm	
Measurement Accuracy	±(50 + 5% FS) ppm	
Work Environment	Temperature	0~60 °C
	Humidity	5 – 95% RH (No condensation)
Storage Environment	Temperature	-10~65 °C
	Humidity	5 – 95% RH (No condensation)

Electrical Diagram

No.	Wire Color	Definition	Function description
1	Brown	VCC	DC 12-24V Power supply
2	Black	GND	Power supply negative
3	Yellow	Iout/Vout	Current/Voltage output

Mounting Diagram

Vertical wall mount, fixed hole diameter 4 mm, pitch 105 mm



Notes

Confirm the polarity and the voltage of the power supply before powering ON the sensor.
The formula is:
“X” is the actual output voltage value and “I” is the actual current output
For 4-20mA output: (1600 ppm / 16) * I = Actual concentration