

## Features

- High linearity and high stability;
- Non-toxic sensing element;
- Good repeatability and long duration;
- High-precision electro-chemical sensing element, no need calibration and replacement;
- Double-layer waterproof membrane design, effectively prevents moisture entering.



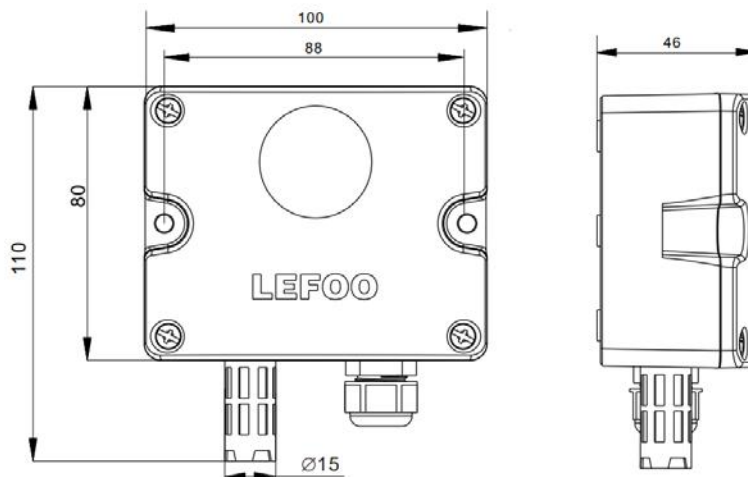
## Introduction

LFG series Carbon Monoxide Transmitters use electrochemical principles to detect carbon monoxide in the air, with good selectivity and stability. Carbon Monoxide and Oxygen undergo redox reaction on the working electrode and the counter electrode, releasing charges to form current. The concentration of Carbon Monoxide can be determined by measuring the volume of the current. It applicable for precision gas measurement and control in indoor air quality, air conditioner, air purifier, underground parking lots and other occasions.

## Technical Parameters

Output	4~20mA	0~5V	0~10V	RS485
Working Voltage	10-30Vdc	10-30Vdc	16-30Vdc	10-30Vdc
Working Temperature	-10~50 °C			
Working Humidity	15%~90%RH			
Work pressure	1atm (Standard Atmospheric Pressure) ±10%			
Measured Concentration Range	0-500ppm/0-1000ppm			
Accuracy	±5%F.S@25 °C			
Response time (T <sub>90</sub> )	≤15s			
Protection level	IP6x			
Service life	>5 years			

## Dimension(unit:mm)



### Model Selection

Spec Code and Definition				Description
LFG101	Carbon Monoxide Transmitter			Model
	A	Electro-chemical		Sensing Element
		1	500ppm	Measurement Range
		2	1000ppm	
		V0	0-5V	Output
		V10	0-10V	
		A4	4-20mA	
		RS	RS485/Modbus	
LFG101- A 1 A4				Model Example

### Wiring Instruction

Wiring of RS485 Digital Output		
Power	Red	Power +
	Black	Power -
Communication	Green	485-A
	White	485-B

Wiring of Voltage/Circuit Digital Output		
Power	Red	Power +
	Black	Power -
Communication	Green	Voltage/Circuit output +
	White	Voltage/Circuit output -