

LEFOO

LFG61

Carbon Dioxide, Temperature And Humidity Transmitter

Product operation manual

Specification

1)Relative humidity

Sensor	Digital
Range	0%~100%RH
Output	RS485/Modbus, 0~10VDC, 4~20mA
Accuracy	±3%@ 20°C & 20~80%RH
Response time	≤10s(at 20°C, in slow-flowing air)

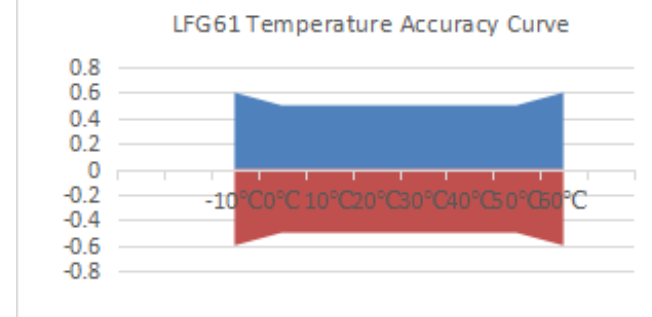
2)Temperature

Sensor	Digital or RTD(see selection table)
Range	0~50°C, -20~60°C, etc
Output	RS485/Modbus, 0~10VDC, 4~20mA
RTD	See selection table and RTD calibration table
Accuracy	Digital sensor: ±0.5°C(@0~50°C),see table below RTD: Typical±0.2~0.5°C@25°C,see selection table

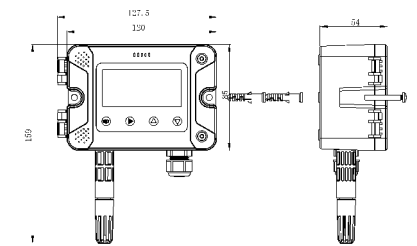
3)CO2

Sensor	NDIR sensor with ABC self-calibration function
Sensor life	>5 years
Range	0~2000ppm, 0~5000ppm, etc
Accuracy	±(40±3%MV)ppm
Output	RS485/Modbus, 0~10VDC, 4~20mA
Response time(T ₉₀)	2min

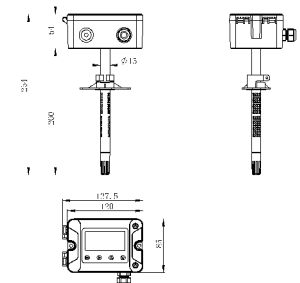
Power Supply	16~35VDC/24VAC±20% Note: When using AC power, an isolation transformer is required.
Output Load	≥10KΩ(voltage type); ≤500Ω(current type)
Display Resolution	0.1°C, 0.1%RH, 1ppm
Display and Buttons	Optional LCD with unit display, backlight, and buttons
Relay	1×SPDT, 3A/30VDC, 3A/250VAC
Enclosure Material	Housing:PC; Probe:PA6
Operating Environment	Probe:-20~60°C&5%-95%RH(non-condensing) Housing:0~50°C&5~85%RH(non-condensing)
Storage Environment	-20~60°C
Protection Rating	IP65(excluding probe), IP30(including probe)



Dimensions



(Wall-mounted) Dimensions ▲



(Duct) Dimensions ▲

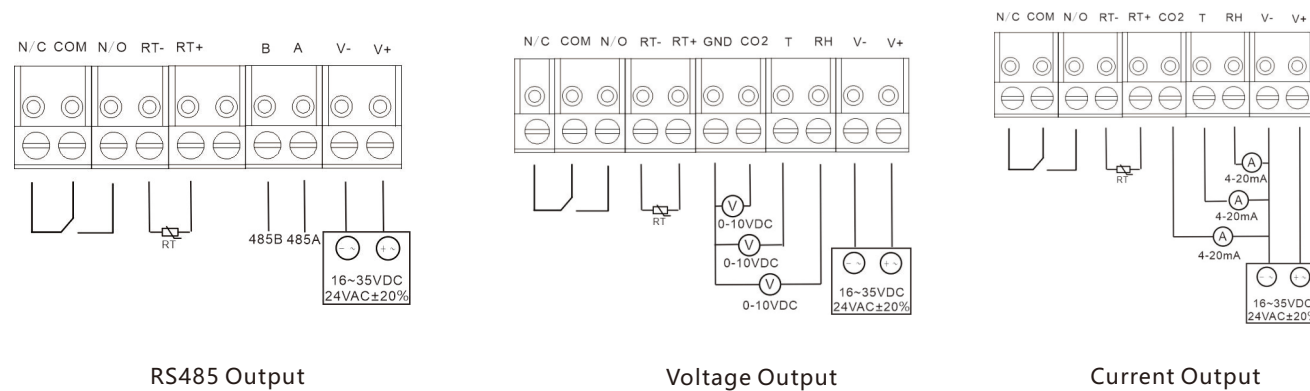
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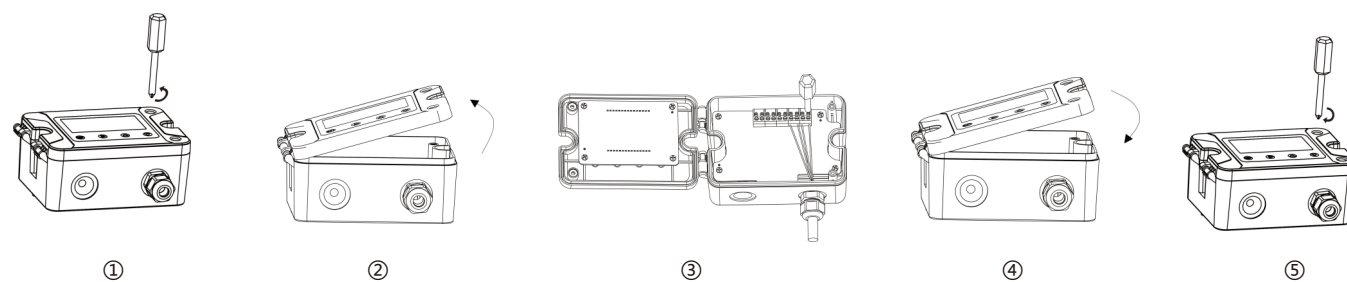
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Wiring And Installation

Wiring Instructions



Product Installation



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Function Description

Button Instructions

Button	Function	Usage Instructions	Remarks
SET	Menu / Confirm Button	1. Long press SET for 3 s to enter the menu selection page. 2. On the menu page, single press SET to enter the parameter modification page; parameters that can be modified will flash on the screen. 3. On the parameter modification page, double press SET to return to the menu selection page. 4. On the menu page, long press SET to return to the main display.	
▲	Up / Increase	1. Press to select the menu page to modify. 2. Press to increase the current parameter by 1.	Some parameters exceeding limits will directly display upper/lower limit.
▼	Down / Decrease	1. Press to select the menu page to modify. 2. Press to decrease the current parameter by 1.	Some parameters exceeding limits will directly display upper/lower limit.
>	Shift	1. Change the flashing cursor position. 2. Double press during CO2 calibration to modify. 3. Double press during factory reset to modify.	

Display Interface

1.Slave Address Setting (F11 Addr) – Applicable for RS485 Version

Press and hold the "SET" key for 3 seconds to enter the menu selection page. Press the "▲" key to switch to the slave address setting interface "F11 Addr". Short press the "SET" key, and the screen will flash to display the current slave address. The slave address can be set within the range of 1~255, with the default value being 1. The slave address consists of three digits. Press the ">" key to move the flashing cursor to the next digit. When a digit is flashing, press the "▲" key to increase or decrease the number by 1. After modifying the slave address, double-click the "SET" key to save the setting. The display will return to "F11 Addr". If you need to modify other parameters, press the "▲" key to select the desired interface. If no further changes are needed, press and hold the "SET" key to return to the normal display interface. The modification method for other parameters is the same as for the slave address.

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