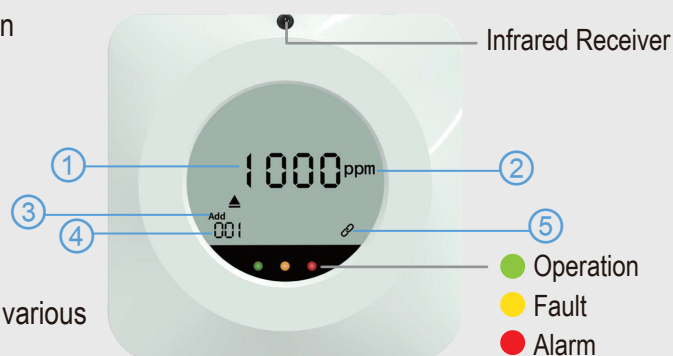# DCbox SO₂ LCD SENSOR — DC110-SO2

- Capable of measuring SO₂ concentration.
- Emits audible and visual alarm signals when the SO₂ concentration exceeds the preset alarm threshold.
- Highly responsive with strong anti-interference capability.
- Features a unique compensation algorithm and multi-point standard gas calibration.
- Characterized by high repeatability and excellent stability.
- Uses remote infrared control technology, allowing parameter adjustments without disassembly.
- Equipped with a high-quality LCD screen for direct value display.
- Operates on a wide DC voltage range of 10–30V, compatible with various DC power supplies.
- Wall-mounted enclosure for easy installation.

Infrared Receiver

① ② ③ ④ ⑤

● Operation
● Fault
● Alarm

SPECIFICATIONS

◆ Power Supply : 10~30Vdc
◆ Average Power Consumption : 0.6W (24Vdc)
◆ Operating Temperature : -10~50°C
◆ Output Signal : 4-20mA/ 0-10V/ 485 output
◆ Repeatability : ≦2%
◆ Stability : ≦2% of signal value per month
◆ Operating Humidity : 15~90%RH non-condensing
◆ Operating Pressure : 90~110kPa
◆ Warm-up Time : ≧5min
◆ Resolution : 0-20ppm: 0.1ppm; 0-2000ppm: 1ppm
◆ Accuracy : ±5%FS 或±10%
◆ Zero Drift : 0-20ppm: ≦±0.5ppm; 0-2000ppm: ≦±4ppm
◆ Response Time : 0-20ppm: ≦45s; 0-2000ppm: ≦70s

① Gas concentration display
② Gas unit display
③ Cyclic display of Add (address) and Baud (baud rate)
④ In item ③, "Add" indicates the address code, and "Baud" indicates the baud rate
⑤ Whether RS-485 communication is successful; once communication is successful, the display remains for 60 seconds

ORDER INFORMATION

DC110-SO2- [Code1] - [Code2]

Code1	Measurement Range
20P	20ppm
2000P	2000ppm

Code2	Output Signal
V	0~10V
Y	RS-485
A	4~20mA

WIRING CONNECTION

Comm.	Position	Description
Power	1	Power+(10-30Vdc)
	2	Power-(GND)
Comm.	3	Signal+(485-A)
	4	Signal-(485-B)

Analog	Position	Description
Power	1	Power+(10-30Vdc)
	2	Power-(GND)
Output	3	Signal+(AO)
	4	Signal-(GND)

| 1 | 2 | 3 | 4 |

Wide voltage power input: 10–30V is supported.
*Note: 0–10V output requires 24V power supply.
*When connecting RS-485 signal lines, make sure A and B lines are not reversed.
Device addresses on the same bus must not conflict.

DIMENSIONS (mm)

70
60
ø3.3
110
110
44.55
36.55