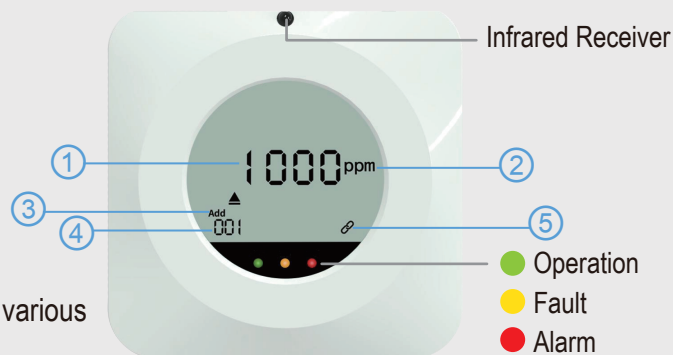# DCbox — O₂ LCD SENSOR — DC110-O2

- Capable of measuring O₂ concentration.
- Emits audible and visual alarm signals when the O₂ 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	: ≦1%
♦ Stability	: ≦5% of signal value per year
♦ Operating Humidity	: 5~95%RH non-condensing
♦ Operating Pressure	: 90~110kPa
♦ Warm-up Time	: ≧5min
♦ Resolution	: 0.1%VOL
♦ Accuracy	: ±2%F.S.
♦ Zero Drift	: 0.3%VOL
♦ Response Time	: ≦10s

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-O2- [Code1] - [Code2]

Code1	Measurement Range
25VOL	25%VOL

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   110   110   44.55   36.55   Ø3.3