

- Display as high brightness OLED.
- Detectable (PM2.5/PM10, CO₂, CO, O₂, TVOC, HCHO).
RS-485 output, connected to **XE-B1.3** for data storage.
- Two sets of relay output (optional).
- SD card can store historical data (optional).
- DC4~20mA output (optional).
- Can be paired with large displays (optional).
- Compatible with wireless LoRa transmission (optional).
920-925MHz compliant with NCC low power RF regulations.



SPECIFICATION

Measuring range: PM2.5 (10, 1.0) : 0~999 $\mu\text{g}/\text{m}^3$
 Temp.: -30.0~100.0°C
 Humi.: 0~100%
 O₂: 0~30.0% (resolution: 0.1%)
 CO₂: 0~5000ppm (Option: 0~9999ppm)
 CO: 0~500ppm
 TVOC: 0.125~0.600ppm
 HCHO: 0~0.8ppm (Option: 0~5.000ppm)

Display: OLED

Dimension: 70mm×20mm

Height: 5.7mm×6.7mm (2 low)

Sensor: PM2.5: Photosensor Temp./Humi.: Digital Sensor

O₂: Electrochemical sensor TVOC: Semiconductor type

CO: Electrochemical HCHO: Electrochemical

CO₂: NDIR Infrared sensor

Accuracy: < 50 $\mu\text{g}/\text{m}^3 \pm 10\%$ reading

> 50 $\mu\text{g}/\text{m}^3 \pm 5\%$ reading

Temp.: $\pm 0.5^\circ\text{C}$

Humi.: $\pm 3\%\text{RH}$ (20%~80%RH@25°C)

$\pm 5\%\text{RH}$ (<20% >80%RH@25°C)

CO₂: $\pm 75\text{ppm}$ or 5%

O₂: $\pm 2\%$

CO: $\pm 5\%$

HCHO: $\pm 5\%\text{FS}$

Response time: < 10 sec.

Temp./Humi.: 1 sec. TVOC: <60 sec.

O₂: <15 sec. CO₂: 1~10 sec.

CO: ≤ 20 sec. HCHO: 1 sec.

Life time: PM2.5: 3 years CO: 4 years

CO₂: 10 years TVOC: 2 years

O₂: 1~2 years HCHO: 2 years

Operating environment: 0~+50°C / Below 80%RH.

Storage environment: -20~+60°C / Below 80%RH.

Power environment: DC 24V

Dimension: 111mm×137mm×36mm

RELAY OUTPUT

Control system: Microcomputer

Setting range: Free setting

Relay capacity: AC 250V, 5Aresistive load

DC 30V, 5Aresistive load

RS485 INTERFACE

Address: 1~FF(16 Hex)

Baudrate: 9600, 19.2K, 38.4K, 57.6K, 115.2K

Frame: N.8.2, E.8.1, O.8.1, N.8.1

Protocol: Modbus RTU mode

ORDER INFORMATION

DCQM-100-



N	None	1	溫度 + 濕度
1	PM2.5 / PM10	1	4~20mA+Relay
2	CO ₂	2	RelayX1
3	TVOC	3	RelayX2
4	HCHO	4	4~20mAX1
5	CO	5	4~20mAX2
6	O ₂	Y	RS-485
O	Option	L	Lora

WIRING CONNECTION

