

- 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 : 0~5.000ppm

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 $\mu\text{g}/\text{m}^3 \pm 5 \mu\text{g}/\text{m}^3$
 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, 5A resistive load
 DC 30V, 5A resistive 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	2	4~20mA+Relay
2	CO ₂	3	Relay×1
3	TVOC	4	Relay×2
4	HCHO	5	4~20mA×1
5	CO	6	4~20mA×2
6	O ₂	Y	RS-485
O	Option	L	Lora

WIRING CONNECTION

