

SEM240U All IN ONE MULTI-FUNCTION SENSOR

OVERVIEW

SEM240U air sensor adopts imported digital temperature and humidity sensor, which has been finely calibrated during production, and the calibration data is stored in the internal memory. The sensor has the characteristics of digital output, which can be completely interchanged, does not need to go through a complicated verification and calibration process, and is outstanding in measurement accuracy, linearity, repeatability, interchangeability, and consistency.

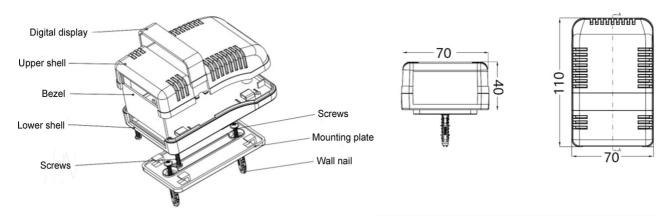
Using non-dispersive infrared (NDIR) principle, electrochemical sensor and high-performance microprocessor, built-in temperature sensor for temperature compensation, can measure atmospheric temperature and humidity, PM1.0/2.5/10, CO2, oxygen concentration, sulfur dioxide concentration, hydrogen sulfide Concentration, ammonia concentration and formaldehyde, etc.



SPECIFICATION

| Parameters | Range | Repeatability | Stability | Accuracy | Response time | |
|---------------------|--|---------------|--------------|----------------|---------------|--|
| Air temperature | -30°C~+70°C(Default) | ±0.1°C | ≤0.04°C/Year | ±0.2°C(25°C) | <1S | |
| Air humidity | 0~100%RH | ±0.1% RH | <0.5%RH/Year | ±3%RH(10~90%) | <1S | |
| PM2.5/PM10/PM1.0 | 0~1000ug/m3 | ≤1%F.S | ≤2%F.S | ±3% F.S (25°C) | <90S | |
| CO2 | 0~5000ppm | ≤1%F.S | ≤2%F.S | ±3% F.S (25°C) | <90S | |
| O2 | 0~25%Vol | ≤1%F.S | ≤2%F.S | ±2% F.S (25°C) | <15S | |
| SO2 | 0~20ppm | ≤1%F.S | ≤2%F.S | ±2% F.S (25°C) | <15S | |
| H2S | 0~100ppm | ≤1%F.S | ≤2%F.S | ±2% F.S (25°C) | <15S | |
| NH3 | 0~50ppm | ≤1%F.S | ≤2%F.S | ±2% F.S (25°C) | <15S | |
| CH2O | 0~5000ppb | ≤1%F.S | ≤2%F.S | ±2% F.S (25°C) | <60S | |
| Noise | 30~130dB | ≤1%F.S ≤2%F.S | | ±2% F.S (25°C) | <15S | |
| Power supply | DC 10-30V (default) | | | | | |
| Signal output | RS485, 0~2V, 0~2.5V, 0~10V, 4~20mA | | | | | |
| Test parameters | Temperature, humidity, PM, CO2,O2, SO2, H2S, NH3,CH2O, NOISE | | | | | |
| Work environment | Temperature - 30 °C - 50 °C; humidity 0 ~ 95% RH, non condensing | | | | | |
| Product material | ABS | | | | | |
| Installation method | Screw fixed | | | | | |

DIMENSION





INSTALLTION



ORDER CODE

| SEM224U | Air sensor | | | | |
|---------|------------|------------------|-------------------|--|--|
| | CODE | Parameters | | | |
| | Α | Temperature | | | |
| | В | Humidity | | | |
| | С | PM2.5/PM10/PM1.0 | | | |
| | D | CO2 | | | |
| | E | O2 | | | |
| | F | SO2 | | | |
| | G | H2S | | | |
| | Н | NH3 | | | |
| | I | CH2O | | | |
| | N | Noise | | | |
| | | CODE | Output | | |
| | | 1 | RS485 | | |
| | | 2 | 4~20mA | | |
| | | 3 | 0~10V | | |
| | | 4 | RJ45 network port | | |
| SEM224U | ABC | 1 | Order example | | |