

SEM333 AIR QUANTITY TRANSMITTER

MAIN FEATURES

- Maintenance-free, long service life
- ASA engineering plastic material
- Output 485, Modbus, Expandable functions: GPS
- 32-bit high speed processing chip
- Modular, no moving parts
- Support extended parameter measurement


OVERVIEW

SEM333 nine-parameter air quality transmitter is an instrument developed by SenTec to monitor nine outdoor parameters: PM2.5, PM10, ambient temperature, relative humidity, air pressure, illuminance, noise, CO₂, and dew point temperature, in response to the current trends in smart city and smart environmental monitoring. The product boasts an elegant appearance and high integration.

The SEM333 air quality transmitter (outdoor type) is suitable for use in urban grid-based environmental monitoring and control, smart streetlights, scenic area environmental monitoring, factories or mines, construction sites (construction site dust monitoring), urban roads, highways, public places and other places involving air quality monitoring.

SPECIFICATION

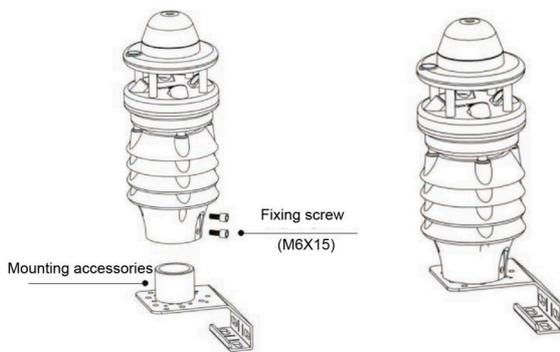
PARAMETERS	RANGE	RESOLUTION	ACCURACY
PM2.5	0-1000ug/m ³	1ug/m ³	±(10±10%) (<500ug/m ³)
PM10	0-1000ug/m ³	1ug/m ³	±(10±10%) (<500ug/m ³)
Temperature	-40-85°C	0.1°C	±0.3°C (@25°C, typical)
Humidity	0-100%RH	0.1%RH	±3%RH (10-80%RH) without condensation
Air Pressure	300-1100hpa	0.1hpa	±0.3hPa (@25°C, 950hPa-1050hPa) Reading 3% or 1% F.S
Light Intensity	0-200KLUX	10LUX	±1.5dB
Noise	30-130dB	0.1dB	≤0.5°C (0°C-30°C, 40%RH~100%RH)
Dew Point Temperature	0-40°C	0.1°C	> 1°C (<0°C, <40%RH)
CO ₂	0-5000PPM	1PPM	±70 PPM ± 3% of the reading
Power supply	DC12V~24V		
Power consumption	<1W (12V)		
Signal output	Default 485 output, MODBUS RTU protocol. Expandable functions: GPS positioning.		
Operating environment	Temperature: -40~85°C; Humidity: 5~100%RH (non-condensing).		
Installation method	Sleeve fixing, flange adapter optional.		
Housing material	ASA material.		
Protection rating	IP65		

DIMENSION

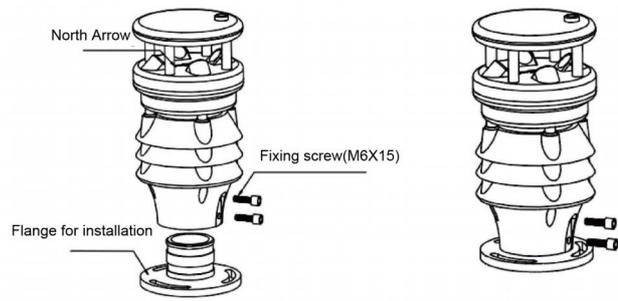


INSTALLATION

• Fixing method of bending plate:



• Fixing method of flange plate:



ORDER CODE

SEM333	Air quality sensor		
	CODE	Parameters	
	A	Temperature	
	B	Humidity	
	C	PM2.5/PM10	
	D	Air Pressure	
	E	Light Intensity	
	F	Noise	
	G	Dew Point Temperature	
	H	CO2	
		CODE	Output
	1	RS485	
SEM333	ABC	1	Order example