

SEM223 CO2 temperature and humidity integrated transmitter
FEATURES

- Use wall-mounted waterproof shell, easy to install, protection level;
- New infrared calibration technology for CO2 concentration measurement, with high accuracy, low drift and long life;
- Wide measuring range, default 0-5000ppm (default), with temperature compensation, little influence by temperature.


FEATURES

SEM223 transmitter adopts a new infrared verification technology to measure CO2 concentration. The response is quick and sensitive, avoiding the life and long-term drift of traditional electrochemical sensors. It is widely used in agricultural greenhouses, flower cultivation, edible fungus cultivation, etc. that require CO2 and temperature and humidity. Monitoring occasions. 485 communication, standard ModBus-RTU communication protocol, communication address and baud rate can be set, the farthest communication distance is 2000 meters. The equipment has 10-30V wide voltage power supply, and the enclosure has a high degree of protection, which can adapt to various harsh conditions on site.

SPECIFICATION

Power supply	10~30V DC	
Average power consumption	0.3W (24VDC)	
Output signal	4-20mA、0-5V、0-10V,485 output (standard Modbus protocol)	
Range	Temperature	-40°C~+80°C
	Humidity	0~100%RH
	CO2	0~5000ppm (default)
Accuracy	Temperature	±0.5°C (25°C)
	Humidity	±3%RH (60%RH,25°C)
	CO2	±(40ppm+ 3%F·S) (25°C)
Working temperature	-20~50°C	
Working humidity	0~95%RH non-condensing	
Working pressure	91~111Kpa	
Stability	≤2% signal value/year	
Repeatability	≤2%	
Response time	≤10S	
Warm-up time	2min (available), 10min (maximum accuracy)	
Zero drift	≤±20ppm	
Service life	≥24 months	
Resolution	1ppm	

FEATURES

- Product design



It is used to detect the concentration of carbon dioxide in the environment. It uses high-performance carbon dioxide sensor to detect the device, which is sensitive, accurate, stable and repeatable.

- Good air circulation



Ensure air circulation while waterproofing, ensuring the accuracy of carbon dioxide measurement.

- Direct lead



Waterproof design, ip65 waterproof grade, pure copper core shielded wire to avoid signal interference

- Screw mounting



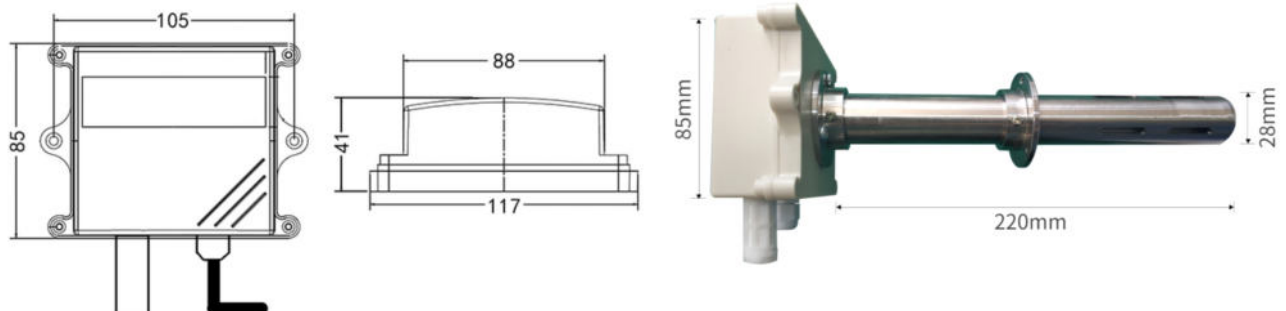
Easy to install and versatile

- High performance circuit



Fully automatic robotic welding ensures stable signal stability and long-term reliability.

DIMENSION



ORDER CODE

SEM223	CO2 concentration				
	CODE	Types			
	A	Wall-mounted type			
	B	Pipe Line type			
		CODE	Range		
		1	0~5000ppm		
		2	Others special range		
			CODE	Output	
			1	RS485	
			2	0~2V	
			3	0~5V	
			4	0~10V	
			5	4~20mA	
				CODE	Relay
			0	Without relay control	
			1	One relay control	
SEM223	A	1	5	0	-