

SEM330 Methane transmitter

FEATURES

- Range 0-LEL, other ranges can also be customized;
- The sensor with explosion-proof ExdIMb explosion-proof grade is stable and durable;
- High measurement accuracy, up to $\pm 5\%$ FS, repeatability up to $\pm 7\%$;
- Wall-mounted waterproof shell, easy to install, high protection level, can be used in harsh on-site environments.



OVERVIEW

The methane transmitter designed by our company uses an explosion-proof ExdIMb sensor, which has strong safety, fast response speed, and strong anti-interference ability. It has passed our unique compensation algorithm and multi-stage standard gas. Calibration also has the characteristics of long life, high precision, high repeatability and high stability. It is suitable for underground pipe corridors, underground parking lots, public toilets, garages, workshops, chemical plants, greenhouse farms and other occasions where real-time monitoring of methane concentration is required.

The equipment adopts wide-voltage 10-30V DC power supply, 485 signal output, standard Modbus-RTU communication protocol, ModBus address can be set, baud rate can be changed, and the maximum communication distance is 2000 meters.

SPECIFICATION

*RS485 output

Power supply	10~30V DC	
Average power consumption	0.9W	
Output signal	485 output (standard Modbus protocol)	
Range	Temperature	-40°C~+80°C
	Humidity	0~100%RH
	Methane	0-100%LEL
Accuracy	Temperature	$\pm 0.5^{\circ}\text{C}$ (25°C)
	Humidity	$\pm 3\%$ RH (60%RH,25°C)
	Methane	$\pm 5\%$ FS, no less than 5%Vol oxygen environment
Working temperature	-20~40°C	
Working humidity	0~95%RH non-condensing	
Working pressure	80~116Kpa	
Stability	$\leq 7\%$ signal value/year	
Repeatability	$\leq 2\%$	
Response time	$\leq 15\text{S}$	
Warm-up time	≥ 5 minutes	
Methane zero drift	$\pm 0.06\%$	
Service life	≥ 24 months	
Resolution	1%LEL	

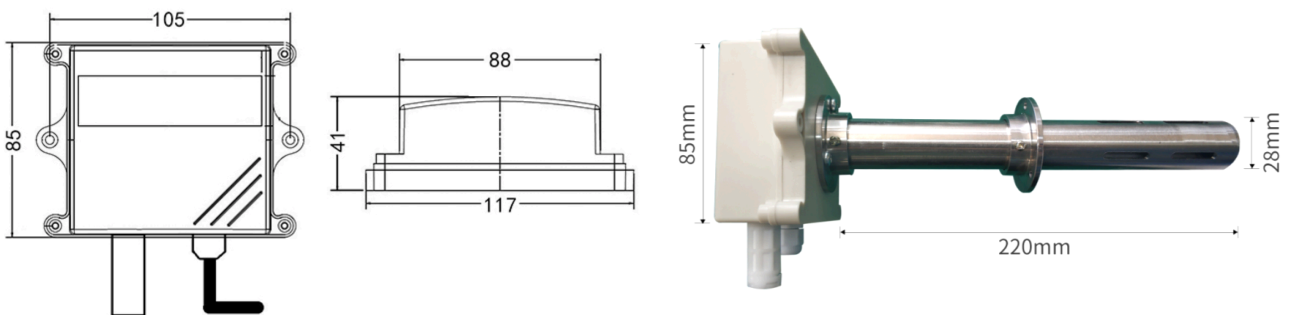
SPECIFICATION

*Analog output

Power supply	10~30V DC (0~10V output type only 24V power supply)
Average power consumption	0.9W
Output signal	4~20mA, 0~5V, 0~10V

Range	0-100%LEL
Accuracy	±5%FS, no less than 5%Vol oxygen environment
Working temperature	-20~40°C
Working humidity	0~95%RH non-condensing
Working pressure	80~116Kpa
Stability	≤7% signal value/year
Repeatability	≤2%
Response time	≤15S
Warm-up time	≥5 minutes
Methane zero drift	±0.06%
Service life	≥24 months
Resolution	1%LEL

DIMENSION



ORDER CODE

SEM330	Methane transmitter		
	CODE	Parameters	
	A	Wall mounted type	
	B	Pipe line type	
		CODE	Output
		A	Modbus protocol 485 signal output
		B	4~20mA current output
	C	0~5V voltage output	
	D	0~10V voltage output	
SEM330	1	A	Order example