

SEM110 RS485 temperature and humidity sensor



SPECIFICATION

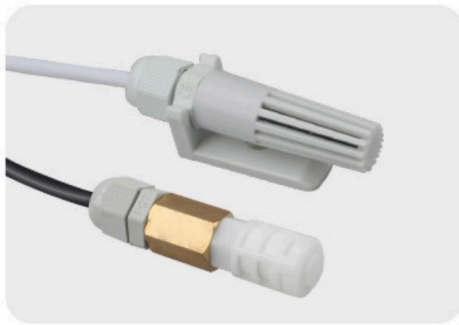
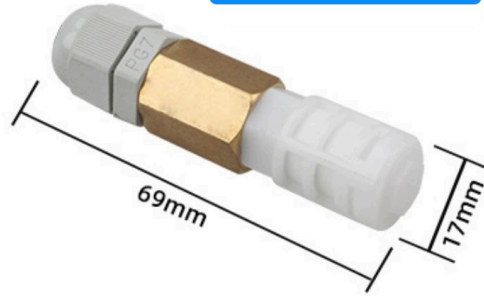
Items	Parameter	
DC power supply (default)	5~28V DC	
Maximum power consumption	RS485 output	0.05W
Precision	humidity	±4% RH (5% RH~95% RH, 25°C)
	temperature	±0.5°C (25°C)
Long-term stability	humidity	≤1%RH/y
	temperature	≤0.1°C/y
Response time	humidity	≤4s (1m/s wind speed)
	temperature	≤15s (1m/s wind speed)
Signal output	RS485 output (standard Modbus-RTU protocol)	
Device communication parameters	The default address code is 1, the default baud rate is 4800 (can be modified by the configuration software)	
Protocol frame format	No parity, 8 data bits, 1 stop bit (N, 8, 1)	
Temperature range	-40°C~+120°C, default -40°C~+80°C	
Humidity range	0%RH-100%RH	
Circuit operating temperature and humidity	-40°C~+60°C, 0%RH~80%RH	

OUTLINE CONSTRUCTION

Epitaxial hardcover probe

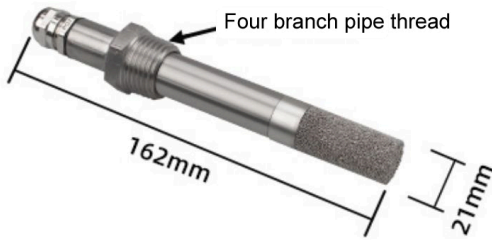


Epitaxial waterproof probe



Model	485 type
Size	69mm*17mm 66.5mm*15mm
Shell	PVC/PE

Extended four branch thread probe









Metal waterproof probe



Model	485 type
Size	162mm*21mm 58mm*15mm
Shell	Metal material

PROBE TYPES

Hardcover probe	Waterproof probe	Highly sensitive probe	High temperature probe	Metal probe	Quadruple thread probe
					
Suitable for a variety of occasions, responsive, waterproof and dustproof	Suitable for high dust applications, probe waterproof	Suitable for a variety of occasions, responsive, waterproof and dustproof	Suitable for applications where the measurement temperature is higher than 80 ° C	Suitable for high dust requirements where high sensitivity is required	With quadruple thread

ORDER CODE

Code:	A	–	B	–	C
SEM	110	–	R	–	2

Model	Code A
Temperature and humidity transmitter	110
Signal output	Code B
RS485 (Modbus-RTU protocol)	R

Probe type	Code D
Built-in copper head	1
Built-in PE head	2
Built-in Siemens head	3
Built-in hardcover probe	4
External hardcover probe	5
External waterproof probe	6
External high sensitivity probe	7
External ordinary probe	8
External metal waterproof probe	9
External long metal probe (external quadruple thread probe)	A
External wide temperature probe	B