SEM220 Wall-mounted temperature and humidity transmitter

MAIN FEATURES

- The measurement unit imported from Switzerland is used for accurate measurement;
- Protection grade IP65, rain and snow resistant and breathable;
- The circuit adopts imported industrial grade microprocessor chip and imported high precision temperature sensor to ensure excellent reliability, high precision and interchangeability.
- 10~30V wide voltage range, complete specifications and easy installation;

SPECIFICATION

RS485 Type		
DC power supply (default)	10~30V DC	
Power consumption	RS485 output	0.4W
A precision	humidity	±2% RH (5% RH~95% RH, 25°C)
	temperature	±0.4°C (25°C)
B precision (default)	humidity	±3% 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	≤8s (1m/s wind speed)
	temperature	≤25s (1m/s wind speed)
Signal output	RS485 output (standard Modbus-RTU protocol)	
Communication parameters	Default address code is 1, the default baud rate is 4800 (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	
Transmitter circuit operating	-40°C~+60°C, 0%RH~80%RH	
Analog Type		
DC power supply (default)	10~30V DC	
Maximum power consumption	Current output	1.2W
	Voltage output	1.2W
Precision (default)	humidity	±3% 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	≤8s (1m/s wind speed)
	temperature	≤25s (1m/s wind speed)
Signal output	Current output	4~20mA
	Voltage output	0~5V/0~10V
Load capacity	Voltage output	Output resistance ≤250Ω
	Current output	≤600Ω
Circuit operating	-40°C~+60°C, 0%RH~80%RH	
Probe operating	-40°C~+120°C, default -40°C~+80°C	
Probe working humidity	0%RH-100%RH	

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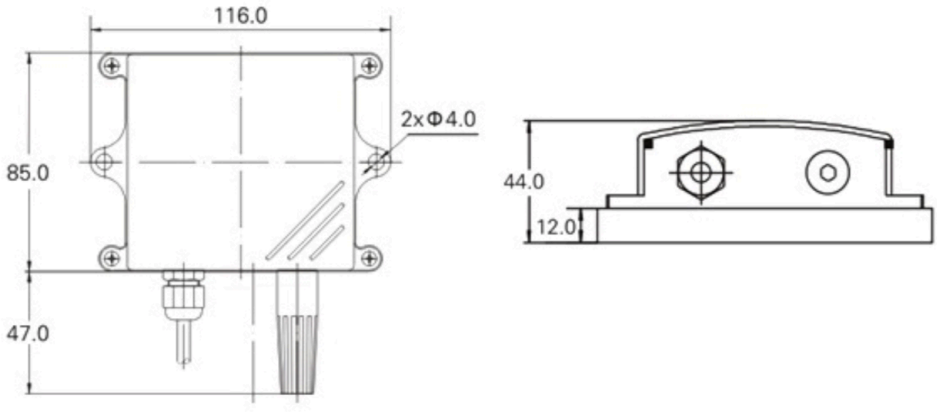
DIMENSIONS

Unit: mm



OUTLINE CONSTRUCTION

- A variety of probes are available to meet different working conditions

External hardcover probe

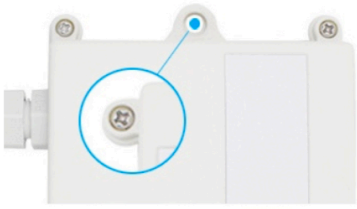
External waterproof probe

External wide temperature probe

- Direct lead

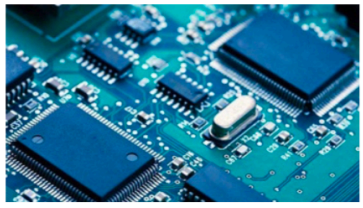
Waterproof design, ip65 waterproof grade, pure copper core shielded wire to avoid signal interference

- Screw mounting



Easy to install and versatile

- High performance circuit



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

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	220	–	R	–	2

Model	Code A
Temperature and humidity transmitter Wall-mounted king shell	220
Signal output	**Code B**
RS485 (Modbus-RTU protocol)	R
4~20mA current output	A1
0~5V voltage output	A2
0~10V voltage output	A3

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

Order Example:
SEM220-R-2
Temperature and humidity transmitter wall-mounted king shell
RS485 (Modbus-RTU protocol)
Built-in PE head