

SEM220B LCD temperature and humidity transmitter

MAIN FEATURES

- Large-screen LCD display, beautiful appearance;
- Adopt high-precision temperature and humidity measurement unit, self-calibration on site, long-term stability and good drift;
- Using a dedicated 485 circuit, standard ModBus-RTU communication protocol, communication address and baud rate can be set;
- 10~30V DC wide voltage range power supply;
- The built-in probe is easy to install, and the probe can be used in a variety of applications for different applications. The probe line can be up to 30 meters long.
- The buttons can be used to set parameters and are easy to operate.



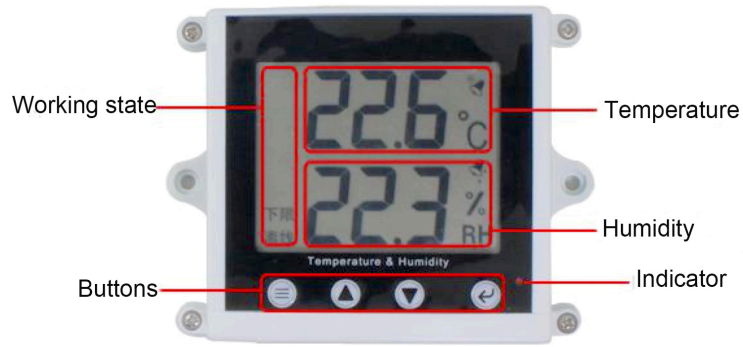
OVERVIEW

SEM220B LCD temperature and humidity transmitter with liquid crystal display, real-time display temperature and humidity, RS485 signal output, communication distance up to 2000 meters (measured), probe inside and outside optional.

SPECIFICATION

Items	Parameter	
DC power supply (default)	10~30V DC	
Maximum power consumption	RS485:0.4W, Analog: 1.2W	
Precision A	humidity	±2% RH (5% RH~95% RH, 25°C)
	temperature	±0.4°C (25°C)
Precision B (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	≤4s (1m/s wind speed)
	temperature	≤15s (1m/s wind speed)
Probe operating temperature	-40~+80°C (Built-in probe, External hardcover probe)	
Probe operating humidity	0%RH-100%RH	
Signal output	RS485 output,4mA~20mA,0~5V/0~10V	
Communication protocol	Modbus-RTU communication protocol	
Temperature display resolution	0.1 °C	
Humidity display resolution	0.1% RH	
Temperature and humidity refresh time	1S	
Transmitter circuit operating temperature and humidity	-40°C~+60°C, 0%RH~80%RH	
Parameter settings	Modify directly via software settings or buttons	

OUTLINE CONSTRUCTION



King shell LCD + network port



External hardcover probe



Epitaxy hardcover probe

ORDER CODE

Code:	A	-	B	-	C	-	D
SEM	220B	-	R	-	5	-	A

Model	Code A
Temperature and humidity transmitter	220B
Signal output	Code B
RS485 (Modbus protocol)	R
4mA~20mA	A
0~5V	V
0~10V	V1

Probe type	Code C
Built-in hardcover probe	4
External hardcover probe	5
Connection type	Code D
Wangzi size shell LCD	A
Wangzi shell LCD + network port	B