

SEM320 UV temperature and humidity transmitter

MAIN FEATURES

- 5-30V DC wide voltage supply;
- Accurate measurement of UV intensity using UV-sensing devices sensitive to 240-370 nm;
- A variety of output models are available, the communication address and baud rate can be set, and the longest communication distance is 2000 meters;
- The high-quality light-transmitting material is used in the see-through window, and the ultraviolet transmittance is over 98%, which avoids the problem that the ultraviolet light is low due to the absorption of ultraviolet light by the conventional PMMA and PC materials.



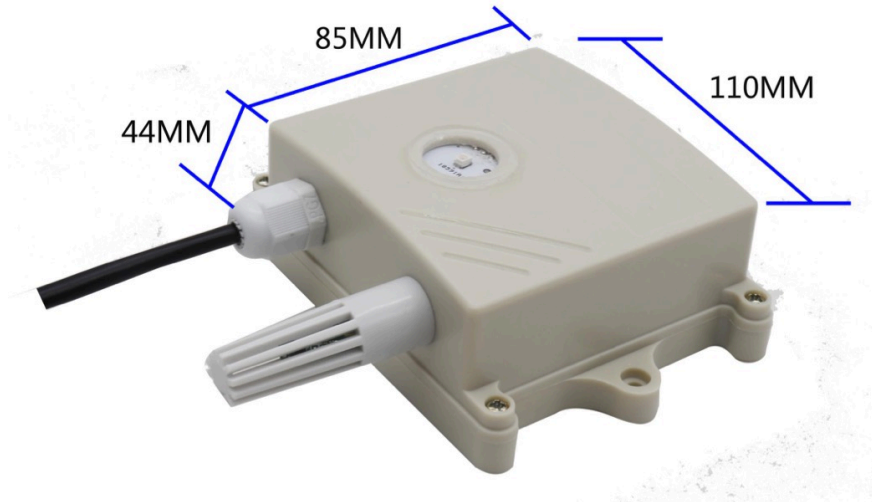
OVERVIEW

This product is based on the principle that photosensitive elements convert ultraviolet light into measurable electrical signals. The integrated temperature and humidity sensor is integrated into one, and the measurement data is more comprehensive. The outer casing of the product is a wall-mounted high-protection enclosure with IP65 protection against rain and snow.

SPECIFICATION

Power supply	5~30VDC (0~10V type only supply 24VDC)	
Maximum power consumption	RS485: 0.1W	
	Analog output: 1.2W	
Accuracy	Ultraviolet irradiance	±10% FS
	Humidity	±3%RH(5%RH~95%RH,25°C)
	Temperature	±0.5°C (25°C)
Ultraviolet Intensity Range	0-15m W/ cm ² , 0-450u W/ cm ²	
Resolution	0.01mW/cm ² (Range: 0-15m W/cm ²) 1uW/cm ² (Range: 0-450u W/cm ²)	
Wavelength measurement range	Wavelength 240-370 nm	
Temperature and humidity range (optional)	-40°C~ +80°C, 0%RH~100%RH	
Circuit operating temperature and humidity	-40°C~+60°C, 0%RH~80%RH	
Long-term stability	Temperature	≤0.1°C/y
	Humidity	≤1%/y
Response time	Temperature	≤18s (1m/s wind speed)
	Humidity	≤6s (1m/s wind speed)
	Ultraviolet irradiance	0.2s
	Ultraviolet Index	0.2s
Output signal	RS485(Modbus-RTU protocol)、4-20mA、0-5V、0-10V	
Load capacity	Current output	With load capacity ≥600Ω
	Voltage output	Output resistance≤250Ω

DIMENSION



ORDER CODE

Code:	A	-	B	-	C
SEM	320A	-	D	-	R

Model	Code A
Ultraviolet transmitter	320A
UV temperature and humidity three in one	320B
Shell	Code B
Wall-mounted king shell	N
Wall-mounted shell OLED display	D

Signal output	Code C
485 output (standard Modbus-RTU)	R
4~20mA current output	S4
0~5V voltage output	S5
0~10V voltage output	S1