

MAIN FEATURES

JenTec

- The sensing element adopts a wire-wound electroplating thermopile, and the sensing surface is a black layer with high absorptivity, which has short response time and small error.
- Using the thermal effect of radiation, it absorbs solar radiation and converts it into thermoelectromotive force, and has a temperature compensation function, which can more accurately measure solar radiation.
- The upper part of the sensing surface adopts a transparent double-layer glass cover with a light transmittance of 95%, which can not only reduce the influence of air convection on the equipment, but also block the radiation of the cover itself.



SPECIFICATION

Power supply	10V~30V DC, or without power supply
Power consumption	485 output: 0.8W 4~20mA/0~5V/0~10V: 1.2W
Output signal	485 (standard Modbus-RTU protocol) 4~20mA current output 0~5V/0~10V voltage output
Working temperature	-40°C~60°C
Working humidity	0%~RH
Sensitivity	7∼14 µV·W-1·m2
Internal resistance	about 300Ω
Response time (99%)	≤30s
Non-linear error	≤±3%
Corresponding error of directionality	≤±30W/m²
Temperature response error	≤±8% (-40°C~+40°C)
Corresponding error of tilt	≤±5%
Spectral range	0.3~3µm
Measuring range	0-2000W/m ²
Resolution	1W/m²
Accuracy	±3%
Annual stability	≤±3%
Spectral selectivity	≤±10%
Cosine response error	≤±5%

E-mail: info@cdsentec.com www.cdsentec.com



DIMENSION





ORDER CODE

Code:	А	
SEM	228T	

Model	Code A
Total solar radiation transmitter	228T
Range	Code B
Aluminum housing	A

В	_	С
А	_	R

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

© ChengDu SenTec Technology Co., Ltd. Information is deemed correct at issue and subject to change without prior notice.