SMA

Reliable

• Rapid error detection

Informative

• Precise measurement of irradiation intensity, module temperature, ambient temperature and wind speed

Easy to Install

• Simple integration into existing PV plants via RS485

Convenient

• Data analysis on any PC or in the Sunny Portal

SUNNY SENSORBOX

The weather station for PV systems

The Sunny SensorBox is installed directly onto solar modules and measures irradiation and temperature. In combination with Sunny WebBox and Sunny Portal, it provides continuous meteorlogical and power production data. This makes it possible to detect shade, dirt, and gradually declining array performance, providing security against lost yield. An optional sensor to measure of ambient temperature or wind speed provides even more data.

Technical data	Sunny SensorBox
Communication	
Data logger communication	RS485 to Sunny WebBox, RS485 to Sunny Boy Control
Interfaces	
Sunny WebBox and Power Injector	1x SMACOM / spring terminals
Max. communication range	
RS485	1200 m (3937 ft)
Power supply	
Power supply	RS485 Power Injector
Input voltage	100 V – 240 V AC, 50 / 60 Hz
Power consumption	< 1 W
Environmental conditions in operation	
Ambient temperature	–25 °C ... +70 °C (–13 °F ... +158 °F)
Protection rating (as per EN 60529)	IP65
General data	
Dimensions (W / H / D) in mm (in)	120 / 50 / 90 (5 / 2 / 3.5)
Weight	500 g (1102 lb)
Mounting location	outdoor
Deployment options	mounting plate, roof bracket
Language versions (manual)	German, English, French, Italian, Spanish, Dutch, Czech, Portuguese, Greek
Features	
Operation	via the Sunny WebBox interface
Warranty: 5 years	●
Certificates and approvals	www.SMA-Solar.com
Accessories	
Mounting plate	○
Roof bracket	○
Wind sensor	○
Wall mounting bracket for wind sensor	○
PT100 ambient temperature sensor	○
PT100 module temperature sensor	●
RS485 Power Injector	●
SMA Power Injector with *Bluetooth*®	○

● Standard features   ○ Optional features   – Not available

Communication with the Sunny WebBox via RS485

Continuous **monitoring** of generator performance in Sunny Portal

Measurement of radiation and module temperature (plus optional measurement of ambient temperature and wind speed)

Easy installation; data transmission and energy supply via a common cable

Toll Free +1 888 4 SMA USA
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