

SunSniffer[®] Gateway

Essential component of the SunSniffer[®] technology for reliable transmission of data to Web Portal.



An essential component of the SunSniffer[®] technology, the Gateway is designed to monitor and control the functionality of solar power plants. It gathers telemetry from various equipment in the field and pushes it to the Web Portal. This data allows offline analysis of plant performance as well as online status control.

The Gateway also provides a flexible interface to configure the power reduction control functionality.



Picture 1. SunSniffer® Gateway



SunSniffer[®] Technology



Picture 2. Gateway dimensions

SunSniffer® Gateway

HOUSING:

Dimensions (LxWxH)	142x90x30 mm
Weight	0.200 kg
Material glass	polycarbonate, fiber reinforced
Installation	DIN-Rail
Protective insulation	2
Protection class	IP51
Operating temperature	re -25 to +60 °C

INTERNET CONNECTION:

Interface	Ethernet RJ45
IP address	automatically, over DHCP

POWER SUPPLY & CONSUMPTION:

Power supply 1.5 A (<40 St 2.5	+24 V DC ring Readers) A (otherwise)
Gateway consumption	<5 W
Consumption per attached String Reader	<1 W

RS485_3_B RS485_3_A POWER OUT RS485_4_A POWER OUT CR0D RS485_1_B RS485_4_A POWER OUT CR0D CR

TECHNICAL SPECIFICATIONS:

RS485 communication channels	5
Supported protocols over RS485 channel	MODBUS, Danfoss, Kaco, Kostal, ABB (PowerOne), SMA, RefuSol, Solarmax, Schüco, Schüco SGI
Communication interfaces	configuration interface accessed by build in WiFi or ethernet cable, remote control from WebPortal
So Inputs (Nso)	2
Analog Sensors Inputs (NSENSOR)	up to 4
Maximum attached String Readers (Nst	R) 30 units/channel; up to 150 pcs.
Maximum inverters (NINV)	up to 30 pcs.
Maximum RS485 cable length	1000 (800 recommended) m

CONNECTIONS:

4 inputs (GPIO-5 - GPIO-8) for S0 and analog sensors connection

4 inputs (GPIO-1 - GPIO-4) for Ripple Controller connection (responsible for power reduction performance)

5 RS485 communication channels for String Reader connection; → channel RS485-5 for String Reader or inverter - use either screw terminal or RJ45

WiFi button for switching-on access point to the internal configuration Web Server

LED lights for internet connection and power indication

Firmware remotely updateable



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