

SunSniffer® Gateway Plus

Our Gateway is a **multiple purpose PV data transmission device**. It collects all data from the field, controls inverters, manages environmental sensors, and sends all information to the Webportal, where analysis takes place.

As data collector the Gateway collects the **data from each String Reader** (voltage and current), and the **data from each sensor** (voltage and temperature).

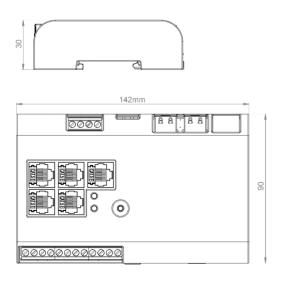
The Gateway can **control and read out data from up to 30 inverters** and has a flexible **power reduction** interface. **Environmental sensors** are supported.

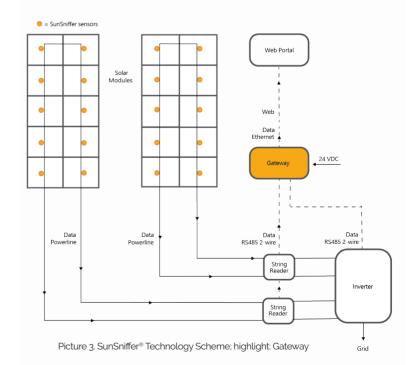
Two "**watchdogs**" prevent potential system crash: the two independent processor boards monitor each other and reboot the system if one should fail.

Updates are made automatically via internet.



Picture 1. SunSniffer® Gateway





Picture 2. Gateway dimensions

SunSniffer® Technology

SunSniffer® Gateway Plus

HOUSING:

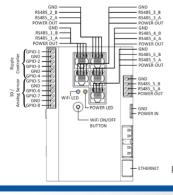
Dimensions (LxWxH)	142x90x30 mm
Weight	0.200 kg
Material glass	polycarbonate, s fiber reinforced
Installation	DIN-Rail
Protective insulation	2
Protection class	IP20
Operating temperature	e -25 to +60 °C

INTERNET CONNECTION:

Interface	Ethernet RJ45
IP address	over DHCP. calibrateable

POWER SUPPLY:

Power supply (included) 1.5 A (<40 String 2.5 A (c	+24 V DC Readers) otherwise)
Gateway consumption	<5 W
Consumption per	<1 W
attached String Reader	
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TECHNICAL SPECIFICATIONS:

RS485 communication channels	5
Supported protocols over RS485	MODBUS and others
RS485 baud rate range	1200 up to 115200 Bd
So Inputs (Nso)	2
Analog Sensors Inputs (NSENSOR)	up to 4
Maximum attached String Readers (Nstr)	30 units/channel; up to 90 pcs.
Maximum inverters (NINV)	up to 30 pcs.
Maximum RS485 cable length	1000 (800 recommended) m
Quality-of-Service:"Watchdogs" for system crash prevention2Device contains too independent processor boards, which monitor each other constantly and are able to reboot the system if the other one crashed.2	

= Quality assurance for hardware

= Quality assurance for RS485 data volume transmission

CONNECTIONS:

4 inputs (GPIO-5 - GPIO-8) for S0 and analog sensors connection (compatible sensors should produce voltage signals varying between 0 and 10V)

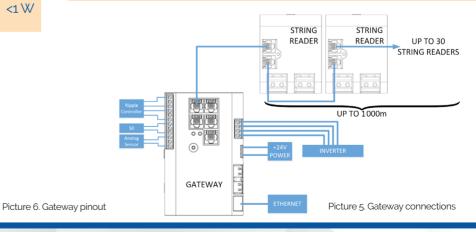
4 inputs (GPIO-1 - GPIO-4) for Ripple Controller connection (responsible for power reduction performance)

5 RS485 communication channels for String Reader connection; channel RS485-5 can be accessed either by RJ45 or screw terminal connectors ("RS485-Inverter")

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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