



SunSniffer®

SunSniffer® Gateway 5-String ~Residential~

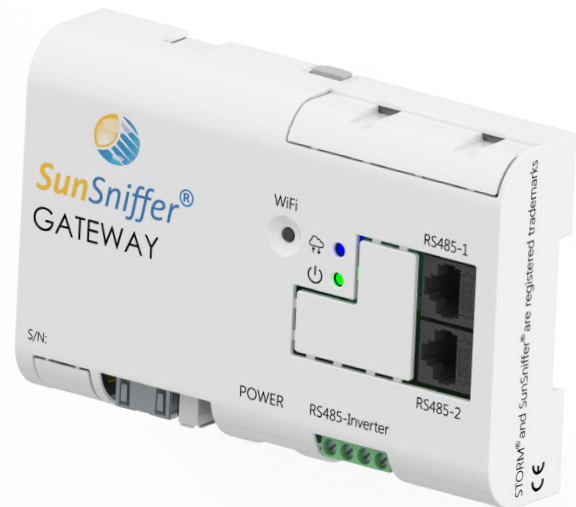
Our Gateway is a **multiple purpose PV data transmission device**. It collects all data from the field, controls inverters, manages environmental sensors, and sends all information to the Webportal, where analysis takes place.

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

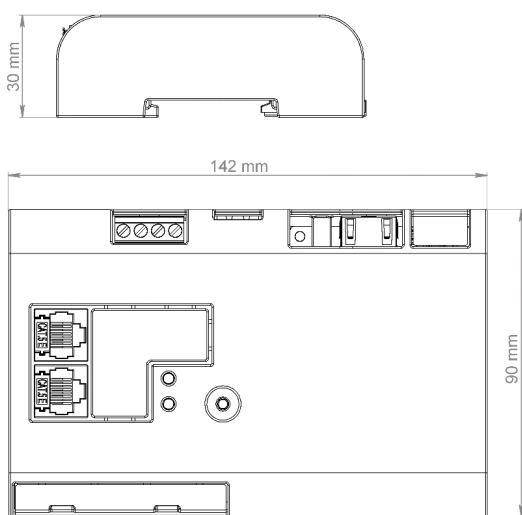
The Gateway can **control and read out data from up to 2 inverters** and has an optional, flexible **power reduction interface**.

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

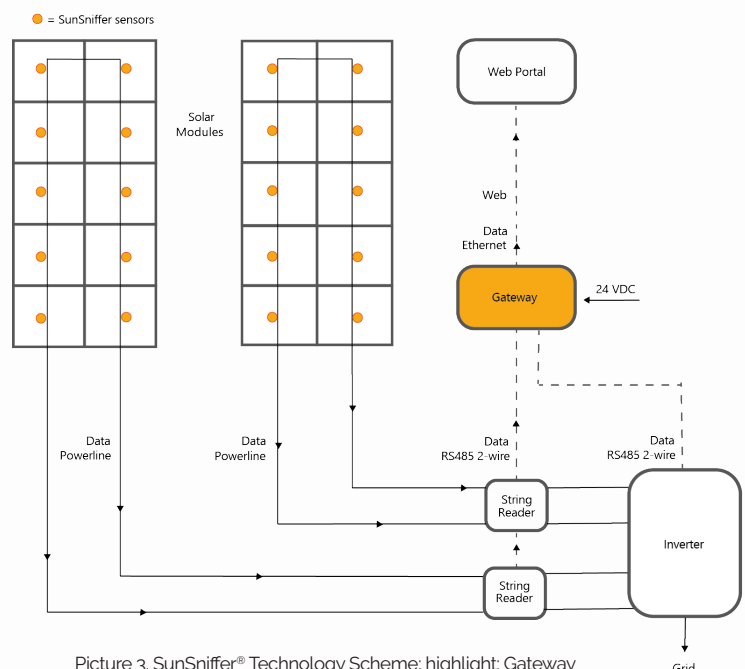
Updates are made automatically via internet.



Picture 1. SunSniffer® Gateway



Picture 2. Gateway dimensions



Picture 3. SunSniffer® Technology Scheme; highlight: Gateway

SunSniffer® Gateway 5-String ~Residential~

HOUSING:

Dimensions (LxWxH)	142x90x30 mm
Weight	0.140 kg
Material	polycarbonate, glass fiber reinforced
Installation	DIN-Rail
Protective insulation	2
Protection class	IP20
Operating temperature	-25 to +60 °C

INTERNET CONNECTION:

Interface	Ethernet RJ45
IP address	over DHCP, calibrateable

POWER SUPPLY:

Power supply (included)	+24 V DC
Gateway consumption	<5 W
Consumption per attached String Reader	<1 W

TECHNICAL SPECIFICATIONS:

RS485 communication channels	3
Supported protocols over RS485	MODBUS and others
RS485 baud rate range	1200 up to 115200 Bd
Maximum attached String Readers (N _{STR})	5 pcs.
Maximum inverters (N _{INV})	up to 2 pcs.
Maximum RS485 cable length	1000 (800 recommended) m

Quality-of-Service:

"Watchdogs" for system crash prevention Device contains two independent processor boards, which monitor each other constantly and are able to reboot the system if the other one crashed. = Quality assurance for hardware = Quality assurance for RS485 data volume transmission	2
--	---

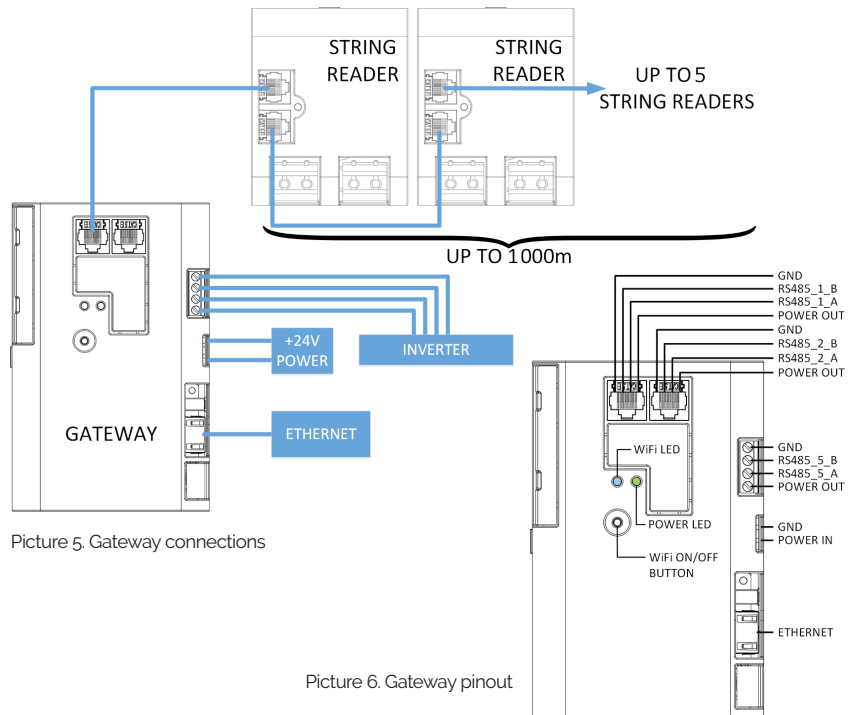
CONNECTIONS:

3 RS485 communication channels for String Reader, inverter or irradiation sensor connection; use channel RS485-Inverter for inverter connection

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

LED lights for internet connection and power indication

Firmware remotely updateable



SunSniffer GmbH & Co. KG
Ludwig-Feuerbach-Str. 69
90489 Nürnberg | Germany

www.sunsniffer.de