SunSniffer®

Gateway 30-String

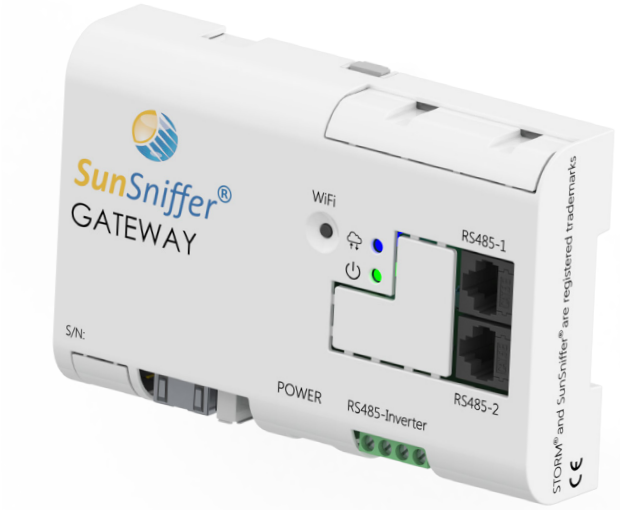
Our Gateway is a **multiple purpose PV data transmission device**. It collects all data from the field, controls inverters, manages environmental sensors, and sends all information to the Webportal, where analysis takes place.

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

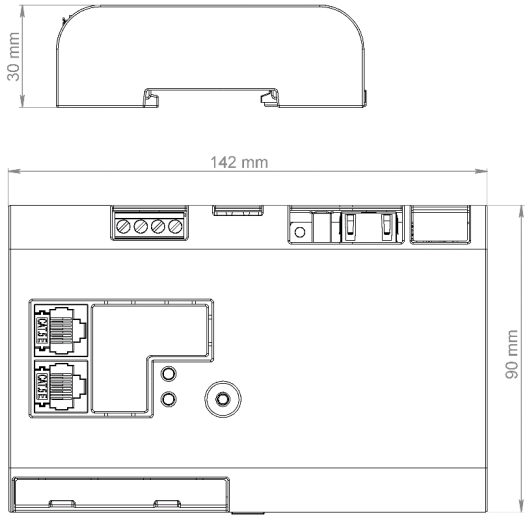
The Gateway can **control and read out data from up to 8 inverters** and has an optional, flexible **power reduction** interface.

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

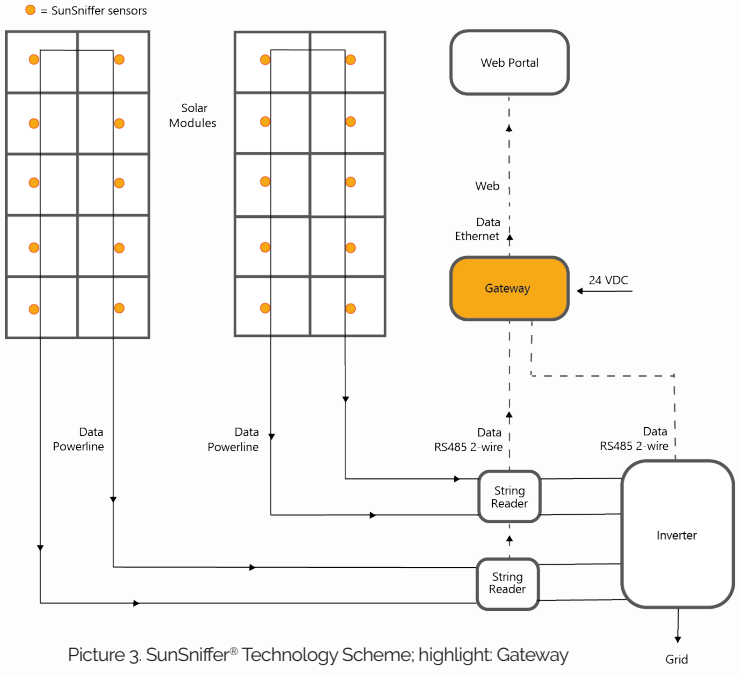
Updates are made automatically via internet.



Picture 1. SunSniffer® Gateway



Picture 2. Gateway dimensions



Picture 3. SunSniffer® Technology Scheme; highlight: Gateway

SunSniffer® Technology

SunSniffer®

Gateway 30-String

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})	30 pcs.
Maximum inverters (N_{INV})	up to 8 pcs.
Maximum RS485 cable length	1000 (800 recommended) m
Quality-of-Service: "Watchdogs" for system crash prevention Device contains too 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

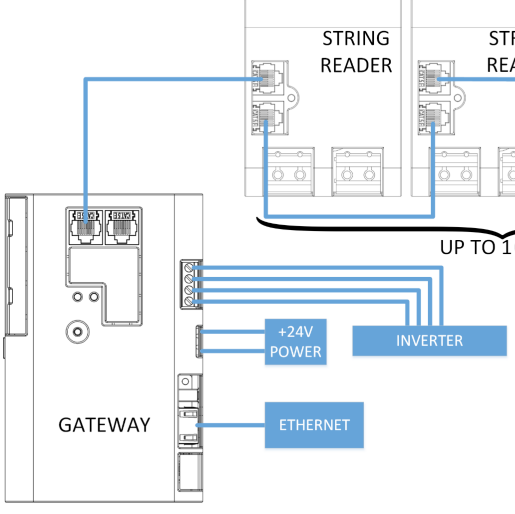
CONNECTIONS:

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

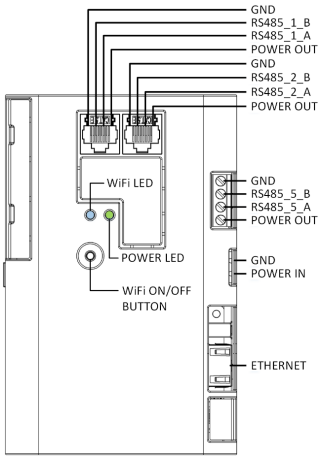
WiFi button for switching-on access point to the internal configuration Web Server

LED lights for internet connection and power indication

Firmware remotely updateable



Picture 5. Gateway connections



Picture 6. Gateway pinout

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