



Item number: 10440

SunSniffer®

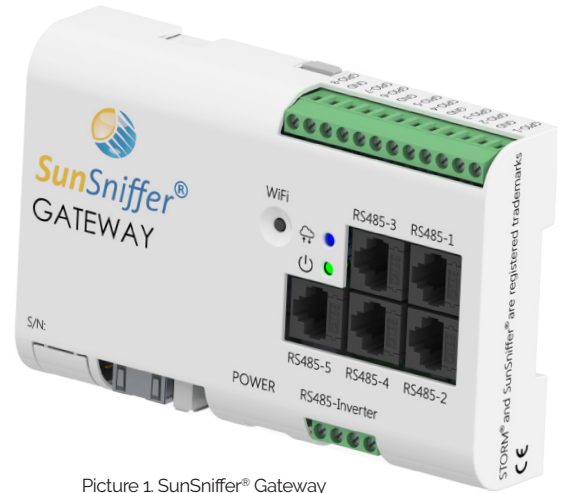
Gateway Plus

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

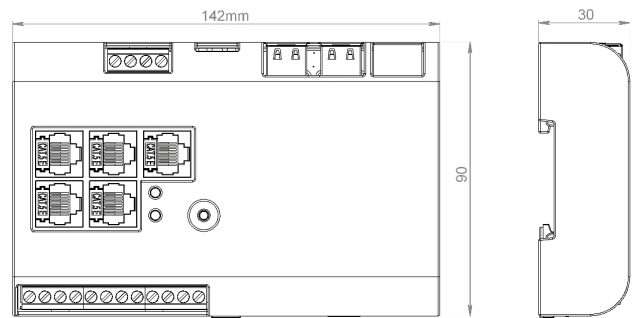
As data collector the Gateway collects the **data from each String Reader** (voltage and current), and the **data from each sensor** (voltage and temperature).

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

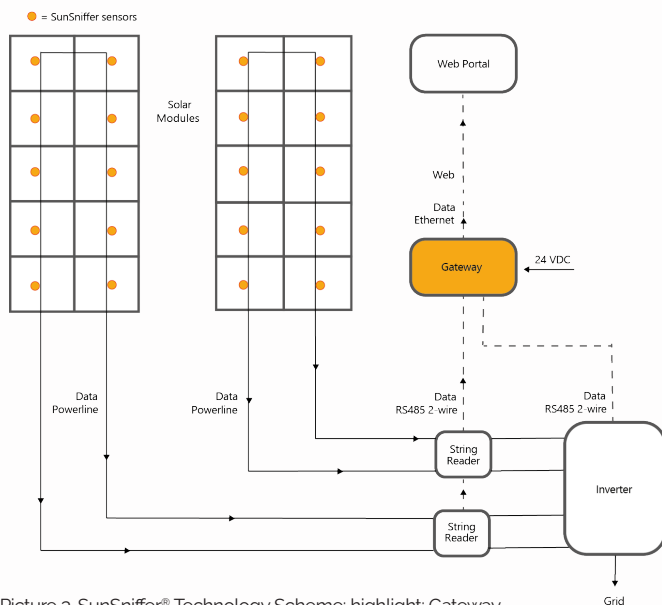
Two "**watchdogs**" prevent potential system crash: the two independent processor boards monitor each other and reboot the system if one should fail.



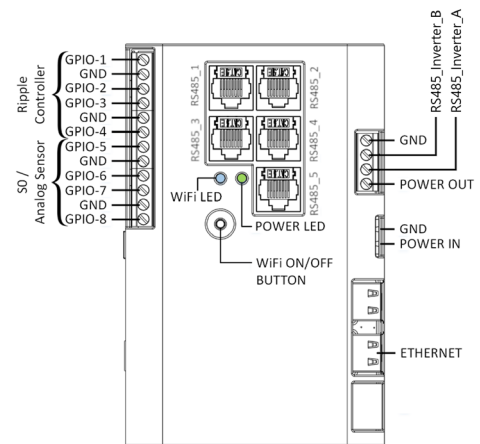
Picture 1. SunSniffer® Gateway



Picture 2. Gateway dimensions



Picture 3. SunSniffer® Technology Scheme; highlight: Gateway



Picture 4. Gateway pinout

SunSniffer® Gateway Plus

HOUSING:

Dimensions (LxWxH) 142x90x30 mm
- box (LxWxH) 160x100x34 mm

Weight 0.185 kg
- with box 0.216 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 dynamic or static

WiFi button activates a hotspot for connecting to the Gateway's web user interface

POWER SUPPLY:

Power supply (included) +24 V DC
1.5 A (<40 String Readers)
2.5 A (otherwise)

Gateway consumption <5 W

Consumption per attached String Reader <0.5 W

TECHNICAL SPECIFICATIONS:

RS485 communication channels 5

Supported protocols over RS485 MODBUS RTU

RS485 baud rate range 1200 up to 115200 Bd

S0 Inputs (N_{S0}) up to 2

Analog Sensors Inputs (N_{SENSOR}) up to 4

Maximum attached StringReaders (N_{STR}) up to 30 pcs./channel

Maximum inverters (N_{INV}) up to 30 pcs./channel

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

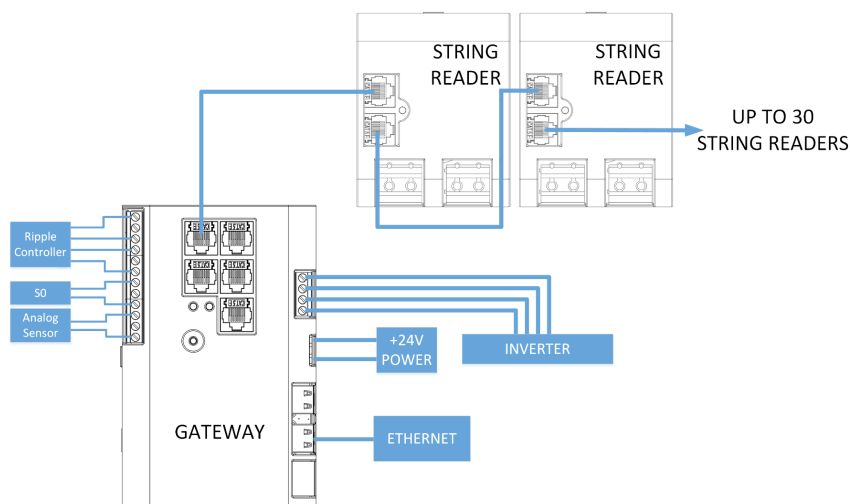
Maximum cable length: refer to StringReader data sheet

CONNECTIONS:

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

4 inputs (GPIO-1 - GPIO-4) for Ripple Control Receiver connection (responsible for inverter power reduction performance)

5 RS485 communication channels for StringReader connection; channel RS485-5 can be accessed either by RJ45 or screw terminal connectors („RS485-Inverter“; RS485-5 and -inverter cannot be used simultaneously)



Picture 5. Gateway connections

>>> Attention! Plant specifications stated by the customer in the „Compatibility Sheet“ have to be followed. Any deviation will lead to loss of warranty. The installation must be carried out by a specialist. In the event of improper installation, the warranty expires and no liability is assumed. <<<

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