



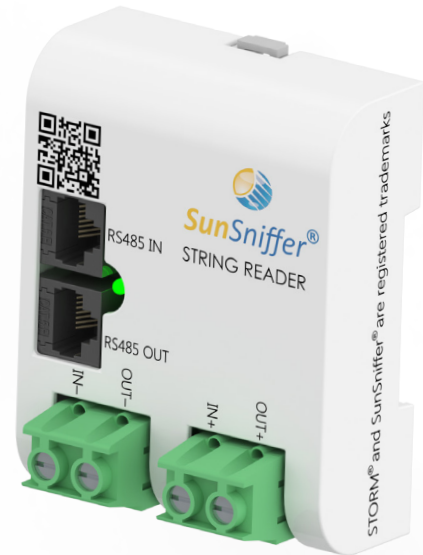
SunSniffer®

SunSniffer® String Reader

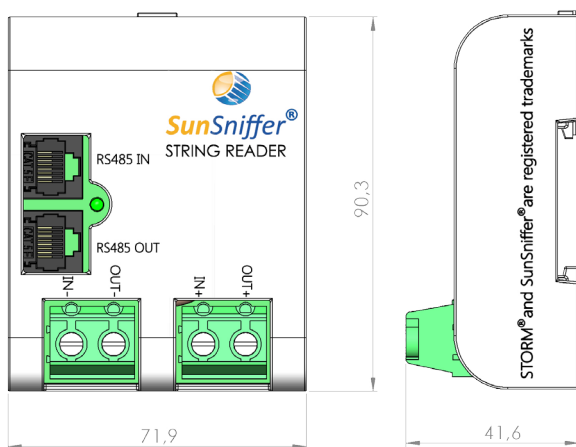
Essential component of the SunSniffer® technology for consistent data collection from individual strings.



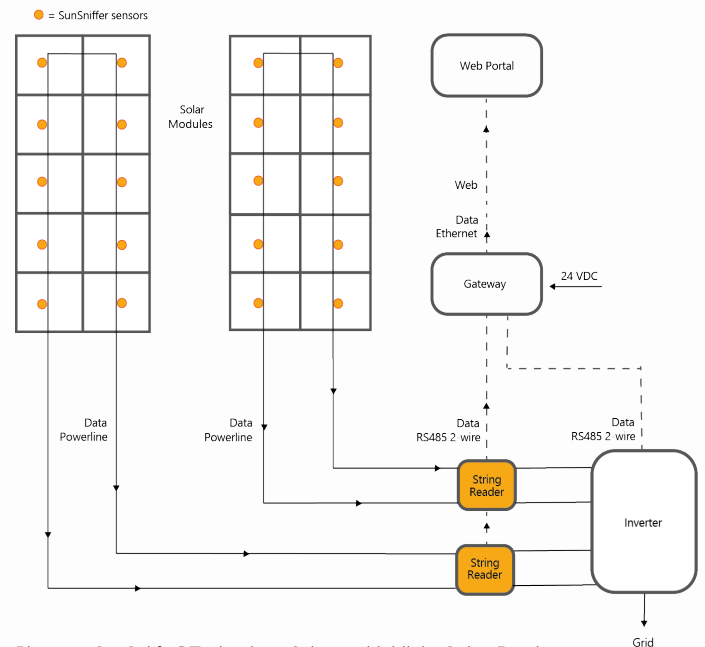
An essential component of the SunSniffer® technology, the String Reader is designed to measure current and voltage of selected PV strings and to read the measurements transmitted by the SunSniffer® sensors placed within the junction box of solar modules. The String Reader provides the essential data for module-level diagnostics of the PV installation. Such data allow offline analysis of the plant performances as well as online status control.



Picture 1. SunSniffer® String Reader



Picture 2. String Reader dimensions



Picture 3. SunSniffer® Technology Scheme; highlight: String Reader

SunSniffer® String Reader

INSTALLATION:

String Reader connected in series between PV string and inverter input (see picture 4 below).

Up to 30 String Readers can be connected to the same RS485 line. Please refer to the related installation manual for installation instructions.

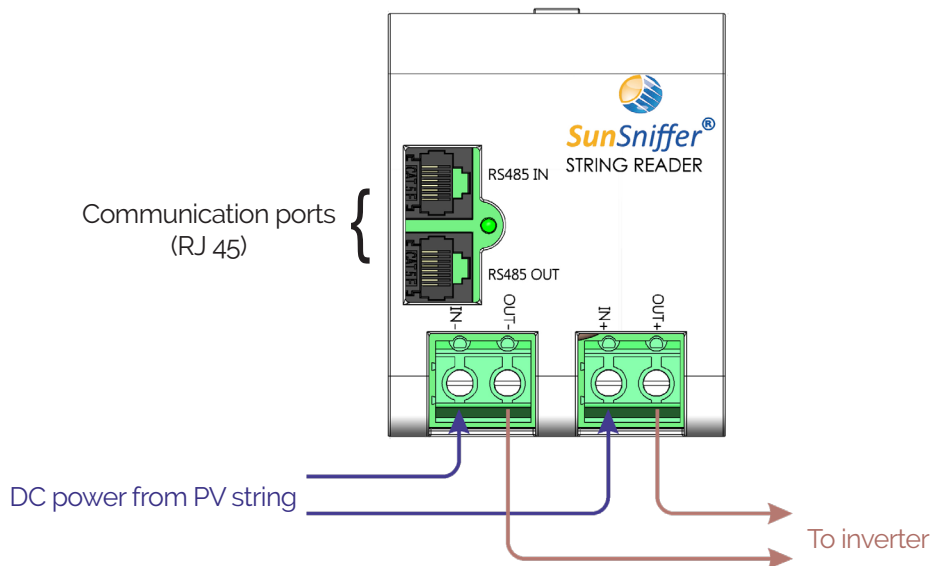
Firmware remotely updateable

TECHNICAL SPECIFICATIONS:

| | |
|--|-----------------------|
| Maximum string voltage (U_{STR}) | 1000 V |
| Maximum string current (I_{STR}) | 10 A |
| Maximum number of PV modules per string (N_{MOD}) | 30 |
| Power supply voltage (U_s), supplied through Gateway | 24 V |
| Power consumption (P_s) | < 0.1 W |
| Dimensions (W x L x H) | 71.90 x 90.34 x 41.74 |

COMMUNICATION:

| | |
|-------------------------|---|
| Communication interface | 2-wire RS485 (4 cables) |
| Communication speed | 9600 Baud |
| Communication protocol | MODBUS RTU |
| LED pattern description | <p>off: no power supplied</p> <p>blinking: power supplied, no connection to Gateway</p> <p>on: power supplied, connection with Gateway established</p> |



Picture 4. String Reader connection scheme