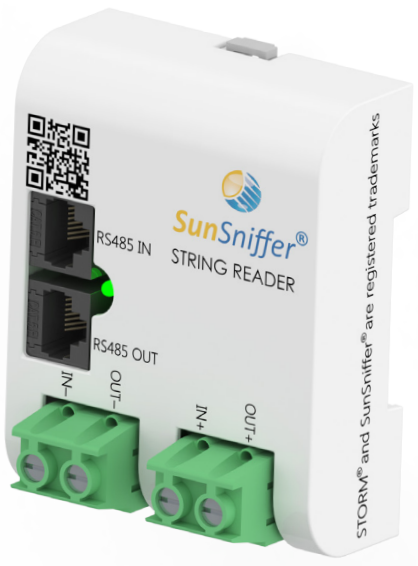
SunSniffer®

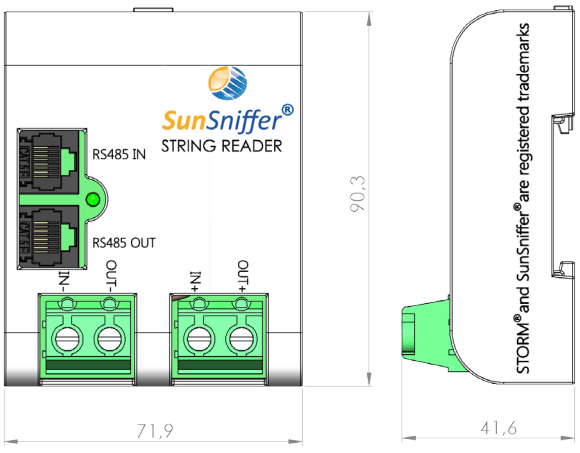
String Reader

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

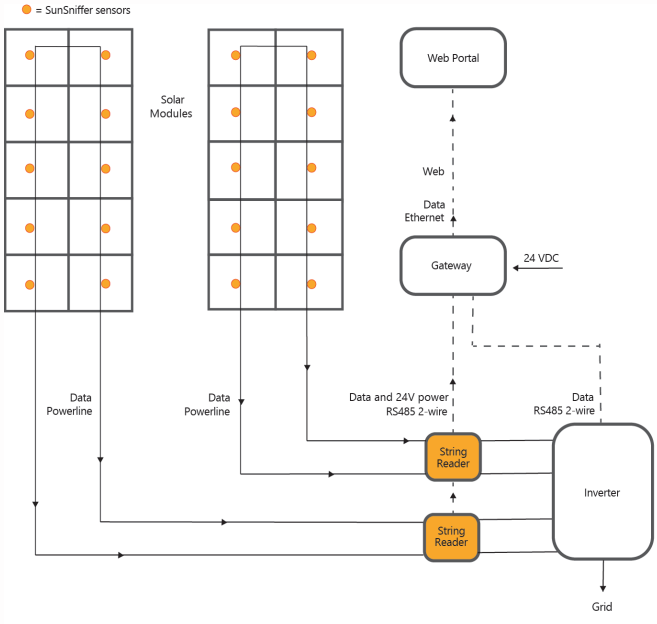
An essential component of the SunSniffer® technology, the String Reader is designed to measure current and voltage of selected PV strings and to read the measurements transmitted by the SunSniffer® sensors placed within the junction box of solar modules. The String Reader provides the essential data for module-level diagnostics of the PV installation.



Picture 1. SunSniffer® String Reader



Picture 2. String Reader dimensions



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

SunSniffer® Technology

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.

Measurement by shunt resistor

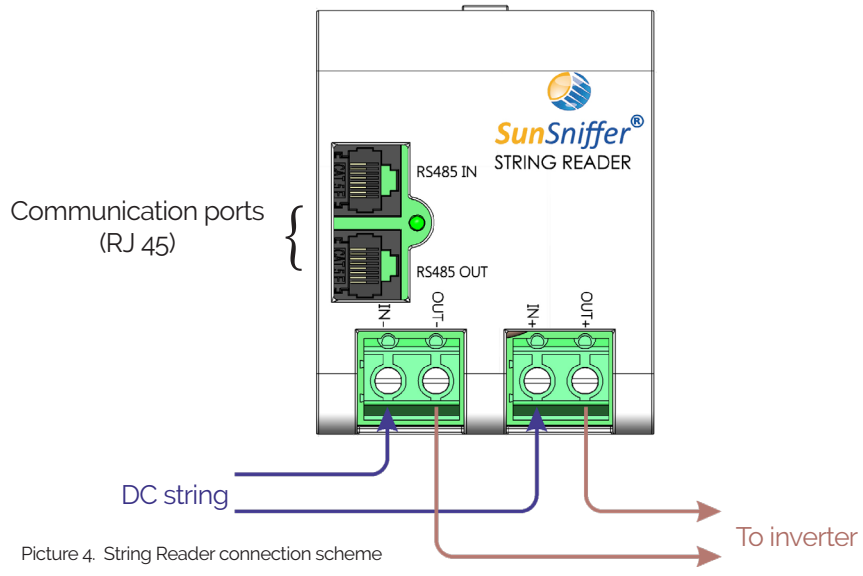
Firmware remotely updateable

TECHNICAL SPECIFICATIONS:

Accuracy of voltage measurement	± 1 %
Accuracy of current measurement (shunt)	± 1 %
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)	< 0.5 W
Operating temperature range	-20 ~ +75 °C
Dimensions (W x L x H)	71.90 x 90.34 x 41.74 mm
Weight / including box	126 g / 151 g

COMMUNICATION:

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



Picture 4. String Reader connection scheme

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