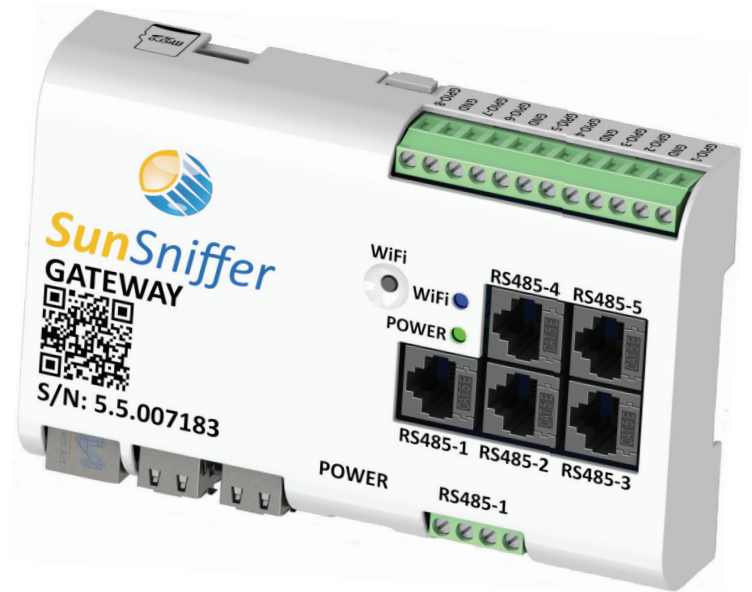


SunSniffer GATEWAY

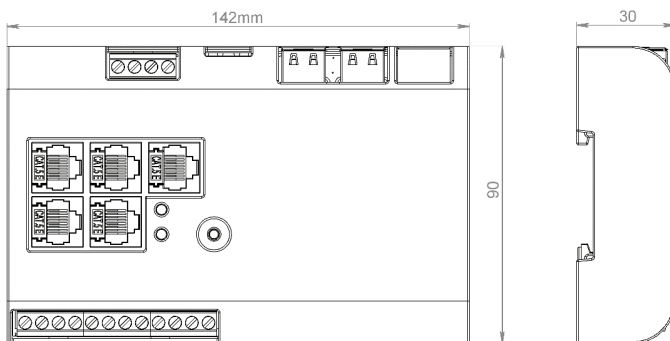
Essential component of the SunSniffer technology for reliable transmission of data to Web Portal.



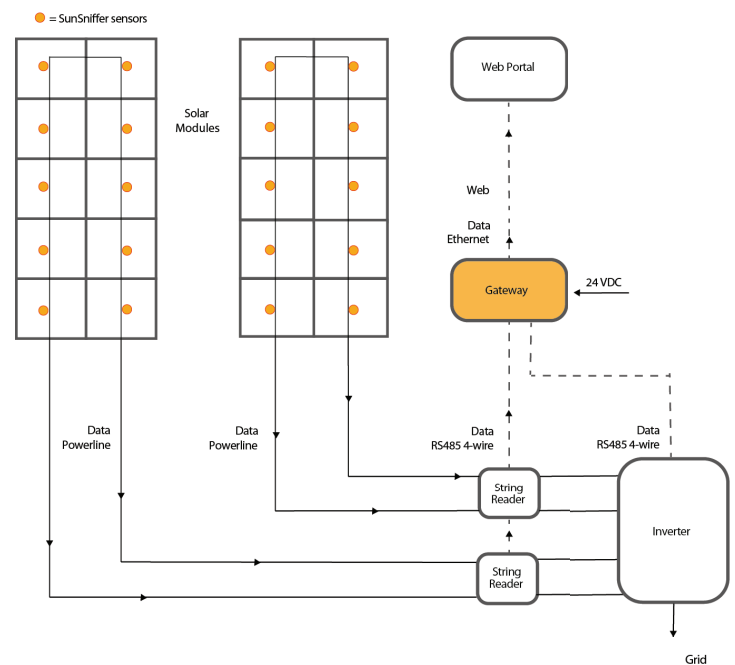
Picture 1. Gateway

An essential component of the SunSniffer technology, the Gateway is designed to monitor and control the functionality of solar power plants. It gathers telemetry from various equipment in the field and pushes it to the Web Portal. This data allows off-line analysis of plant performance as well as on-line status control.

The Gateway also provides a flexible interface to configure the power reduction control functionality.



Picture 2. Gateway Dimensions.



Picture 3. SunSniffer Technology Scheme /Highlight: Gateway

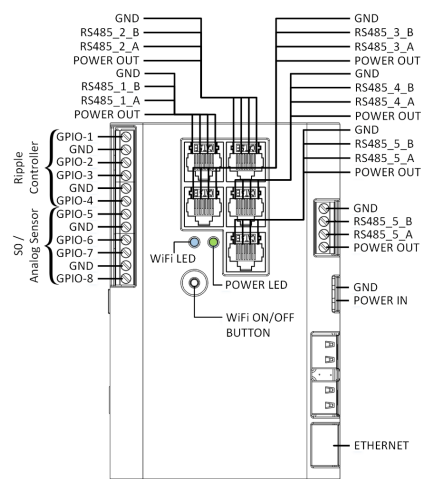
SunSniffer GATEWAY

HOUSING:

Dimension (LxWxH)	142 x 90 x 30 mm
Weight	0.200 kg
Material	polycarbonate, glass fiber reinforced
Installation	DIN-Rail
Protective insulation	2
Protection class	IP51
Operating temperature	-25 to +60 °C

INTERNET CONNECTION:

Interface	Ethernet RJ45
IP Address	automatically, over DHCP
Power supply	+24 V DC 1.5 A (<40 String Readers) 2.5 A (otherwise)
Gateway consumption	<5 W
Consumption per attached String Reader	<1 W



Picture 4. Gateway Pinout

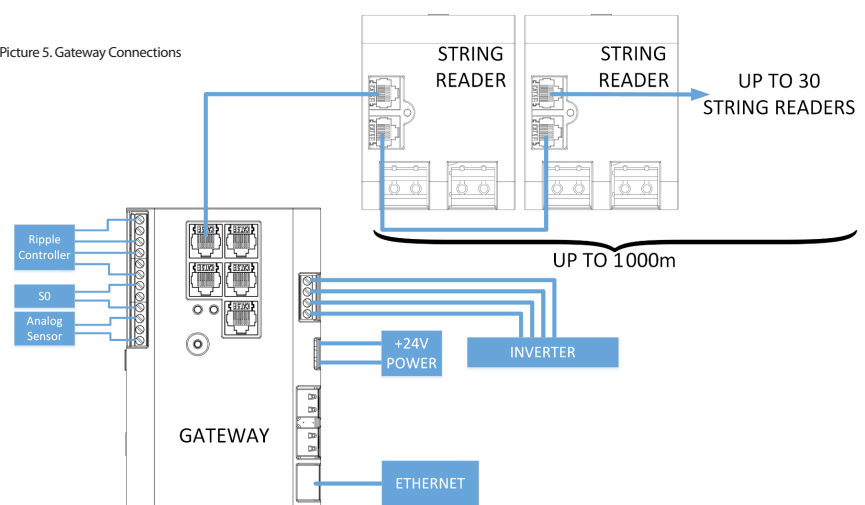
TECHNICAL SPECIFICATIONS:

RS485 communication channels	5
Supported protocols over RS485 channel	MODBUS, Danfoss, Kaco, Kostal, PowerOne, SMA, RefuSol, Solarmax, Schüco, Schüco SGI
Protocols	WiFi Access Point with built in Web Server, Configuration interface, Remote control from Web Portal
S ₀ Inputs (N _{S0})	2
Analog Sensor Inputs (N _{SENSOR})	up to 4
Maximum attached String Readers (N _{STR})	120 pcs.
Maximum inverters (N _{INV})	up to 30 pcs.
Maximum RS485 cable length	1000 (800 recommended) m
DC voltage provided on communication channel connector	+24 V

CONNECTIONS:

4 inputs (GPIO-5 - GPIO-8) for S ₀ Analog sensors connection
4 inputs (GPIO-1 - GPIO-4) for Ripple Controller connection (responsible for power reduction performance)
5 RS485 communication channels for String Reader and inverter connection
RJ45 connector for Ethernet connection
WiFi button for switching-on access point with internal configuration Web Server

Picture 5. Gateway Connections



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