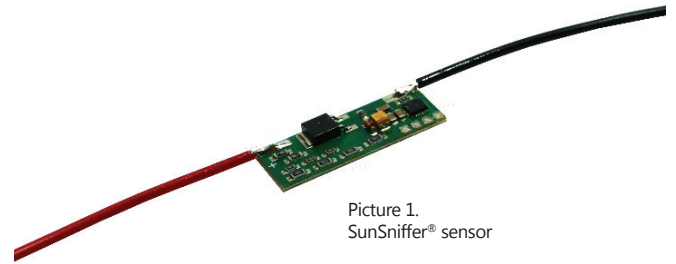




# SunSniffer®

# SunSniffer® Sensor rev. F

The heart of the SunSniffer® technology for highly accurate detection of module data.



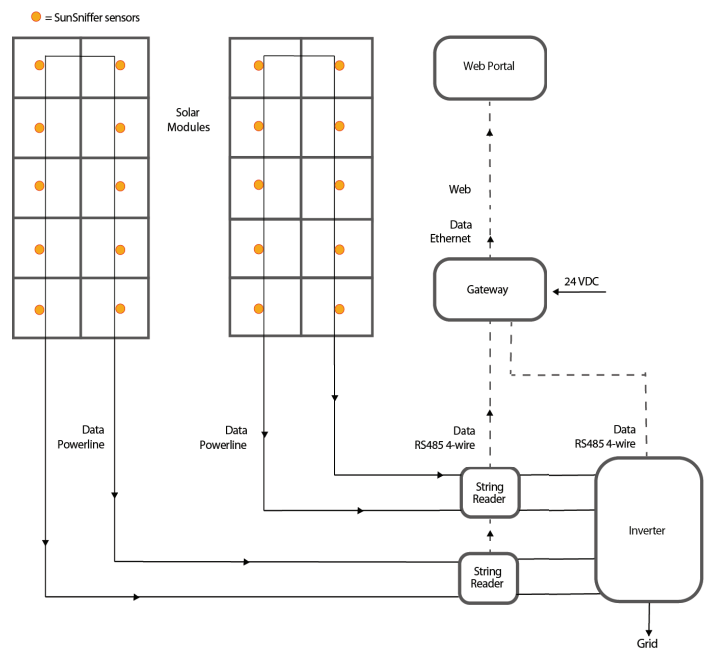
Picture 1.  
SunSniffer® sensor

The heart of the SunSniffer® technology, the Sensor is deployed for module-level monitoring in solar panels. Installed in the junction box, it assumes the function of telemetry data collection and transmission:

- **voltage (V)**
- **temperature (t°C)**
- **sensor serial number**



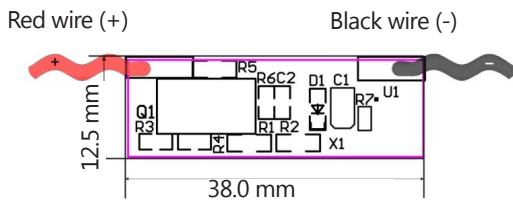
Picture 2. SunSniffer® sensor - example of positioning in junction box



Picture 3. SunSniffer Technology scheme

# SunSniffer® Sensor

## TECHNICAL SPECIFICATIONS:



Picture 5. Sensor technical drawing and dimensions

Dimensions (L x W x H)	38 x 12.5 x 4 mm
Working voltage	10 ~ 45 ± 0.2 V
Temperature	-40 ~ + 85 ± 1 °C
Current consumption	≤10 mAmp
Serial Number length (SN)	30 bit
Data transmission interval (T) including:	30 ± 0.4 sec
- temperature transmission interval (T <sub>t°C</sub> )	4 ± 0.4 min
- SP full serial number transmission interval (T <sub>SNfull</sub> )	4 ± 0.4 min
- voltage transmission interval (T <sub>v</sub> )	30 ± 0.4 sec

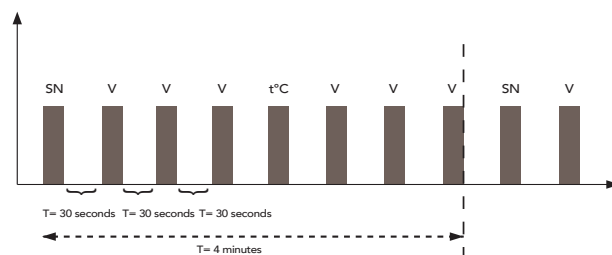
The SunSniffer® sensor transmits data with 30 seconds interval.

There are three types of data sent:

- 1) Sensor serial number SN
- 2) Module voltage V
- 3) Module Temperature t°C.

The sequence is repeated every 4 minutes.

Please refer to data packet sequence below.



Picture 6. Sequence of data packets