

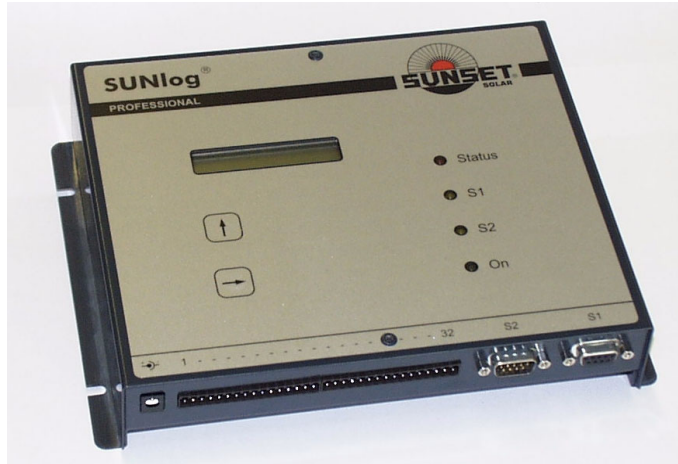
# SUNlog<sup>®</sup> light

## A datalogger and measuring system for PV plants

SUNlog<sup>®</sup> light was developed as a datalogger for PV plants with an output of more than 1 kW. The high energy demand of datalogging with personal computers has been reduced by 98 %.

### System components:

- The datalogger **log<sup>®</sup> light** is placed near the inverter and reads data from the inverter via a serial interface. Power is supplied via an AC adapter. The datalogger consists of a micro-controller with program, buffer memory, as well as interfaces, and analogue terminals. LED's to indicate status and power supply terminals for sensors are also included.
- The insolation sensor **SUNlux** (IS) is installed on the solar generator. The IS contains a silicon sensor in a weatherproof aluminium casing to measure insolation. The measured analogue data is transmitted via a shielded cable to the datalogger, which also supplies the sensors with power.
- Standard software **SUNlog<sup>®</sup>**, which is installed on a personal computer, evaluates, visualizes, and transmits performance data. It is compatible with our **SUNvision<sup>®</sup> light** software package.



The data is digitalized and stored. Insolation, produced, and grid-feed energy, as well as operating hours are recorded and daily, monthly, and yearly averages calculated and stored. In addition insolation and power values are calculated as 4-minute averages and stored as a two-week curve in the datalogger. The stored data can be transferred to a personal computer at any time. As long as a PC is connected to the datalogger, current values can be shown online.

Optionally the datalogger can be connected to a moving message display or to a large display board to present texts and performance data. Sensors for ambient and module temperature, and data cables are also available.

**Electronics:** 8-Bit micro controller, 128 Kbytes EEPROM for system software, 128 Kbytes RAM (basic features) for data (buffer), 8 x 10-bit A/D transducer on chip, watchdog, real-time clock, 2 serial interface RS232. Power consumption <5W.

**Terminals:** 8 analogue ports, 0 (4) - 20 mA active or passive  
2 impulse ports with S0 interface according to DIN 43 864

**Mechanics:** Metal casing approx. 240 x 180 x 40 mm<sup>3</sup>, plug connections above/in front, pluggable screw claps for analogue signals. 4 LED's in cap to display operation, data transfer and operational status.

### Options

- Module temperature measurement **SUNtemp<sup>®</sup>**
- Ambient temperature measurement **SUNtemp<sup>®</sup>**
- Moving message display **MMD<sup>®</sup>** with 50 or 100 mm digit height
- Large display board (manufacture on order)
- Multiplexes for inverter interface
- PC visualization for Windows **SUNvision<sup>®</sup>-32**
- Online visualization **SUNvision<sup>®</sup> - TV**

### Included in delivery:

Datalogger **SUNlog<sup>®</sup>**  
 Insolation sensor **SUNlux<sup>®</sup>**  
 (Standard) software **SUNlog<sup>®</sup>**  
 AC adaptor  
 Manual  
 Cable PC-DL