

# Solar Controllers SUNGO



**Wagner Solar**

ENERGIETECHNIK  
ENERGY TECHNOLOGY  
TECHNOLOGIE ÉNERGÉTIQUE  
ENERGIETECHNIEK



## The new Generation of SUNGO Controller

Developed more than 15 years ago, constantly improving it in close cooperation with our customers for effective harvesting, storage and utilization of solar heat.

### STANDOUTS

- Versatile applications
- Intuitive operation
- Highest efficiency
- Upgradeable
- Internal functional monitoring

### DETAILS

From single and multi storage systems to systems with heating circuit control - the SUNGO range will feature a product that matches your needs.

Straight forward user interface with combination of pictograms, text display and structured menus, for user-friendly operation.

Intelligent management of heat generators, control of high efficiency pumps and solar return blending ensure maximum efficiency of the solar heating system.

The integrated bus system allows to connect additional modules for extended functionality. Examples are more inputs and outputs, extra room temperature sensors and remote monitoring via the Internet.

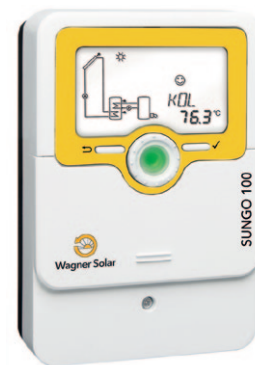
Integrated algorithms continuously check the proper functioning of the solar system and inform the user of possible disturbances, thus permanently assuring the yield of the solar installation.



### SUNGO 100

Solar controller for water heating and space heating support

- Choice of 10 pre-programmed schemes incl. multi-storage and multi-collector fields
- Display shows system scheme, icons and plain text
- Dial for easy operation
- Heating support via return flow boost
- Can be integrated in the CIRCO 7 solar circulation unit



### SUNGO 200

Solar controller for complex solar thermal systems

- 13 pre-programmed schemes and free assignment of inputs and outputs
- Full graphic display with temperature profile history
- Data recording, backup and firmware updates via SD card
- Expandable with up to two SUNGO EM expansion modules
- Intelligent 0-10 V heat generator request
- Heating support through return flow admixture and return flow boost
- Extensive heating circuit control





## SUNGO 300

For highly demanding applications. The specialist for all extensive control tasks.

- 13 pre-programmed schemes and free assignment of inputs and outputs
- Full graphic display with temperature profile history
- Data recording, backup and firmware updates via SD card
- Expandable with up to 5 SUNGO EM expansion modules
- Intelligent 0-10 V heat generator request
- Freely selectable functions and availability of inputs and outputs
- Heating support through return flow admixture and return flow boost

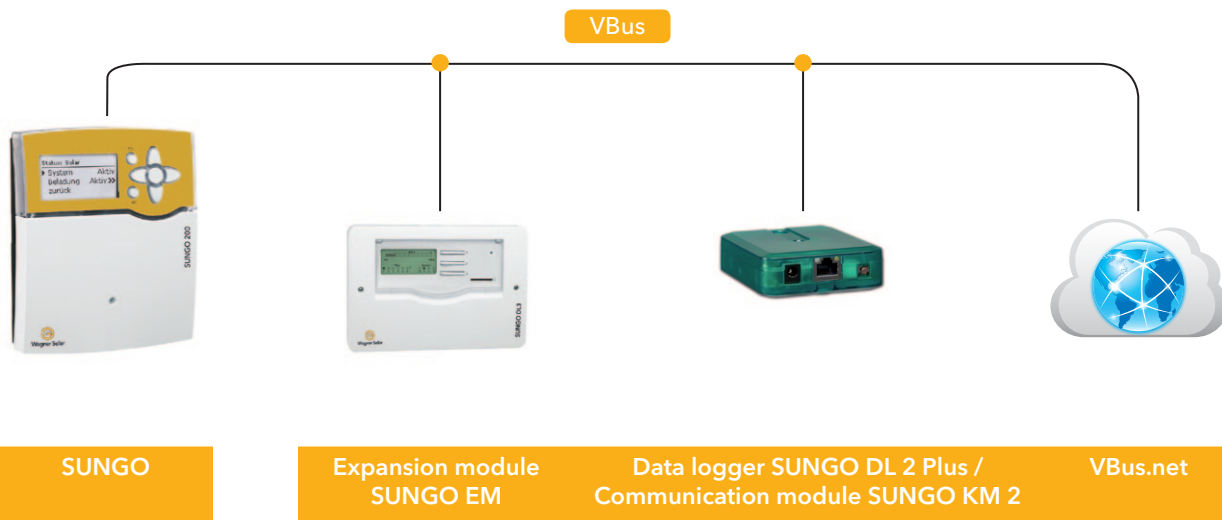


Features	SUNGO 100	SUNGO 200	SUNGO 300
<b>Input</b>			
Temperature	4	8	12
Combination input (pulse or temperature)	1 (only pulse)	1	3
Grundfos digital*	-	2	2
Grundfos analog*	-	-	2
Irradiation	-	1	1
<b>Output</b>			
230 V	2	4	13
Continuous phase	-	1	1
Potential free relay	1 (low voltage)	1	1
PWM / 0-10 V	2	2	4
Connection expansion module SUNGO EM	-	2	5
Scope of supply	Controller, 1 sensor Pt1000	Controller, 4 sensors Pt1000	Controller, 5 sensors Pt1000
* per Input 1 x temperature and 1 x pressure or 1 x volume flow			

## Accessories

## Additional modules

The functional scope of the SUNGO controller can be supplemented as required by the connection of additional modules.



## Accessories

**SUNGO EM:** The expansion module expands the SUNGO 200 / 300 controllers by another 6 input and 5 output terminals.

**SUNGO KM 2:** The communication module connects the SUNGO controllers (also by WLAN) with existing local networks and the internet, allowing remote monitoring and display of live data in web browser or app.

**SUNGO DL2 und SUNGO DL3:** The data loggers record the measured parameters of the connected controllers. Access to the data logger is enabled via an existing network. Possibility to anytime have worldwide access to live data, longterm temperature trends and control functions. The data loggers can optionally be integrated into the building control system (BACnet, Modbus).

## Complementary Software

**The online system portal VBus.net** enables remote monitoring and visualization of measurement data as well as worldwide access to the device via the internet. The communication module SUNGO KM and the data loggers SUNGO DL2 or SUNGO DL3 can be integrated. Monitor your solar thermal and heating system comfortably and free of charge. Connection and setup do not require any knowledge of network technology.

**PC software RPT:** The PC software enables the comfortable parameterization. The settings can be transmitted to a target device via network.