

## EGO Smart Heater

Intelligent Heating with PV Power

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Thanks to the combination of the Solar-Log™ and the EGO Smart Heater, surplus PV power can be used to heat water which can also be used later when stored in combination storage tanks. The heating elements are activated to operate at different levels from 0 to 3500 watts depending on the amount of surplus power. This combination increases the degree of self-sufficiency, especially in the summer and in transitional periods when there is a high amount of surplus PV power. During this time, no fossil fuels are needed for the conventional heating of warm water. The minimal temperature for the hot water heater can be defined in the device configuration. This will ensure that there is always enough warm water available regardless of the amount of surplus PV power. The EGO Smart Heater can be conveniently configured from the Solar-Log™ web interface.

### Even More Advantages for Plant Owners:

- Easy and quick installation for new and existing plants.
- Universally applicable in hot water storage tanks with and without corrosion protection thanks to its insulated construction.
- Frost protection function: when water temperature drops below 4°C, the EGO Smart Heater starts to heat the water at 500 watts to prevent the boiler from freezing (break-down of the primary heater), regardless of the PV yield and settings.
- The EGO Smart Heater is a compact device - no additional connections beyond the power connection and data connection to the Solar-Log™ are needed.
- Once the target water temperature has been achieved, the PV power can be used by other appliances.
- Up to a total of six EGO Smart Heater Ethernet devices can operate together.

Solar-Log™ is compatible with my-PV AC ELWA®.

## Technical Data

## EGO Smart Heater Ethernet

Compatible with Solar-Log™ series:	Solar-Log <sup>200, 500, 1000</sup> and Solar-Log 300, 1200, 1900 and 2000 with firmware version 3.2.0 or higher (a free RS485 connection is also required)
Ambient temperature	0°C to +40°C
Heating capacity	Adjustable operating level from 0 - 3500 watts in 500-watt steps
Heating temperature	Adjustable to a maximum of 80° C
Minimal and maximum temperature	Configurable
Power frequency	50 Hz
Protection level	IP54 DIN EN 60529
Environmental type	For indoor use only
Maximum operating altitude	2,000 meters (VDE regulations) above sea level
Input voltage	1N/PE AC 230 V
Protection class	I
Overvoltage category	II
Power supply	230 V / 16 A
Self-consumption on standby	ca. 1 W
Switching voltage	Maximum 265 V AC
Power connection	Separate power cables with current ratings of more than 16A are required for the screw-in heating elements
Connection	Ethernet
Mounting threads	1.5 inch B / 38.1 mm
Width across flats	60 mm
Material / material quality	Stainless steel / 1.4301
Unheated length	95 mm
Immersion depth	450 mm
Safety standards	DIN EN 60335-1 - Safety of Household and Similar Electrical Appliances DIN EN 60730-1/9 - Thermostats
Protective temperature limit	Device installed internally (according to DIN EN 60730-1)
Warranty	2 years
Article number	256014

