

Function

5 inputs, 2 outputs

The S308 controller is an ideal solution for all doublecircuit systems. It monitors and controls solar thermal systems with up to two differently aligned collector arrays or maximum of two domestic hot water or buffer storage tanks.

The S308 is also distinguished by the compact casing, which is typical for this series of devices. It can be superbly integrated into solar stations, but of course it can also be installed on walls or top-hat rails. The variable input voltage range allows universal use of the device worldwide.

The solar controller has five inputs for acquisition of temperature and pulse information and two outputs. These can also be used for controlling high-efficiency pumps. The device is equipped with an additional alarm output. The operating states are visualised on an animated, clearly arranged display.

Together with an external pulse encoder, the integrated calorimetry system allows the acquisition of numerical information on the solar yields of the system.

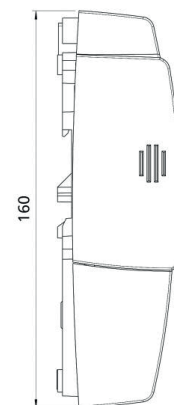
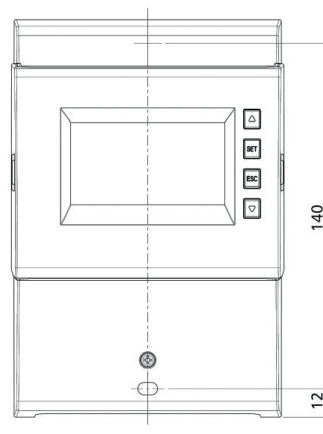
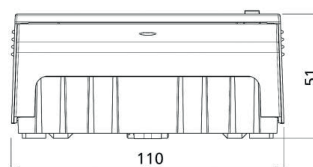
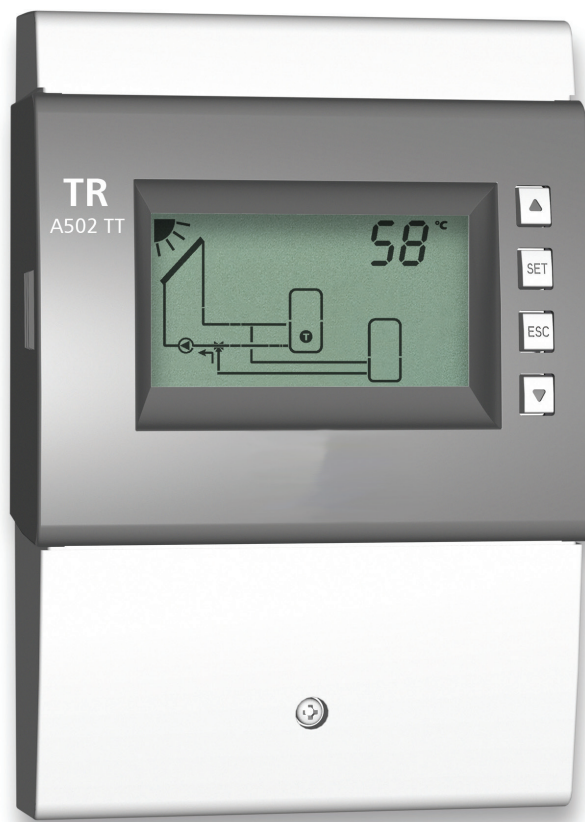
The controller can be used in a wide range of applications and is exceptionally easy to configure and operate: Eleven system configurations are pre-programmed. The inputs and outputs are already defined and you can see what is connected at a glance.

Installers only need to set the boundary parameters. The system setting "0.1" allows free selection of the controller functions to suit the system type and operating requirements. The ability to be mounted on a wall or top-hat rail emphasises the flexible range of uses for the device.

The specially constructed switching power supply in the S308, which is used in all controllers of this series, ensures the maximum possible efficiency and economic operation.

The new electronic load control system protects the device from overloading and installation errors. This ensures long-term, safe and reliable operation of the entire solar system.

The S308 also provides important system monitoring and safety functions. This ensures long-term, safe and reliable operation of the entire solar system. For rapid correction of system malfunctions special error displays are shown.



Product features

- Compact, multipart designer casing
- Installation versions: Solar pump stations, wall installation, mounting rails
- Wave packet (Triac) and pulse width modulation (PWM) ensure electronic RPM control
- High level of operational safety through fault diagnosis
- Hours-of-operation logger
- Software update possible
- Daily pump start
- Screw terminals allow universal and rapid installation
- Low power consumption thanks to universal and widerange switched mode power supply
- Variable input voltage range for worldwide controller deployment
- Electronic overloading control and protection

Displays

- Multifunction graphical LCD display with backlighting
- Animated representation of the systems and operating states

Operation

- Non-verbal menu navigation
- Manual switch for manual, auto, off

Functions

- Heat quantity (pulse generator, determination)
- Display showing CO2 savings
- Reduction of stagnation phases
- Active cooling (e.g. to avoid stagnation)
- Holiday (storage tank recooling)
- Circulation (controlled by temperature / time)
- Back-up heating
- Solid fuel boiler
- Storage tank quick charge
- Thermostat
- Differential thermostat
- Interval / tube collector
- Anti-freeze
- Display storage tank top
- Alarm output

System voltage	115 V AC ... 230 V AC (± 15 %), 50 Hz / 60 Hz
Standby	0.76 W
Temperature control class	I
Energy efficiency	1 %
Number of inputs	5
Inputs	4 x temperature (Pt1000), 1 x temperature (Pt1000) or pulse
Number of outputs	2
Outputs	2 x triac for speed control (R1, R2), max. 250 W (230 V) or PWM control signal for pump speed (PWM R1, PWM R2)
Additional output	1 x potential-free switching output for the safety extra-low voltage
Hydraulic schemes	11
Ambient temperature	0 °C ... +50 °C
Degree of protection	IP 22 / DIN 40050 [without front panel: IP 20]
Dimensions (X x Y x Z)	110 x 160 x 51 mm [0.00 x 0.00 x 0.00 inch]
Weight	350 g [0.00 oz]