



Steca TR 0402

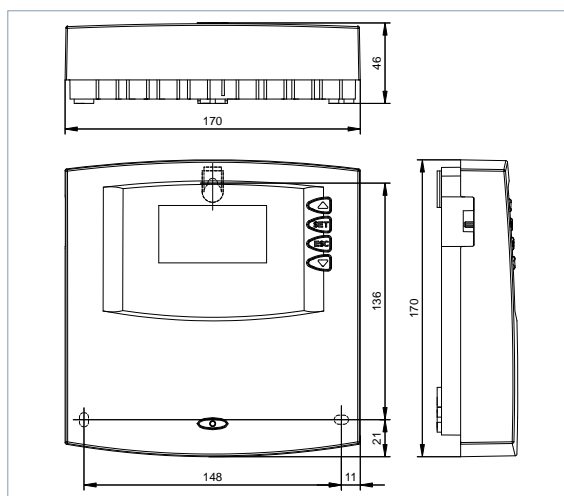
4 inputs,
2 outputs

The Steca TR 0402 solar thermal dual-circuit controller meets the requirements of modern solar energy systems' fundamental layouts. In particular, alongside single-circuit solar energy systems, this includes so-called "combined solar energy systems" which can also use the sun's energy for heating. Combined solar energy systems are either 2 storage tank systems, or a combined storage tank system in which one "combined" storage tank provides hot water for heating, as well as hot drinking water.

By means of its numerous and additionally selectable functions, the Steca TR 0402 controller enables individual system adjustment. Thus, for example, the heating return can be integrated into the solar energy system, or the back-up heating or circulation pump can be controlled directly from the solar controller.

The large animated graphic display visualises the operating statuses, and shows not only the current temperature, but also the minimum and maximum temperature values. The Steca TR 0402 controller's features also include display of the operating hours and a calculated heat quantity. The preprogrammed systems and the consistent use of easy-to-understand pictograms guarantee that the controller is simple to operate.

In addition, comprehensive information windows are displayed, so as to continually ensure reliable operation of the solar energy system, and to provide detailed information at all times.



Product features

- Compact, multipart designer casing
- Electronic speed control
- High level of operational safety through fault diagnosis
- Hours-of-operation logger
- Storage tank target temperature loading
- Screw terminals allow universal and rapid installation

Displays

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

Operation

- Multilingual menu navigation
- Side switch for manual, auto, off

Functions

- Heat quantity (determination)
- Heating return increase
- Reduction of stagnation phases
- Holiday (storage tank recooling)
- Circulation (controlled by temperature / pulse)
- Back-up heating
- Solid fuel boiler
- Storage tank quick charge
- Thermostat
- Differential thermostat
- Interval / tube collector
- Anti-freeze
- Display storage tank top

TR 0402	
System voltage	230 V (± 15 %), 50 Hz optional 115 V (± 15 %), 60 Hz
Own consumption	≤ 2 W
Inputs	4 4 x temperature (Pt1000)
Outputs	2 1 x triac for speed control (R1), max. 250 W (230 V) 1 x switch output relay (R2), max. 800 W (230 V) or R2 voltage free
Hydraulic schemes	4
Ambient temperature	0 °C ... +45 °C
Degree of protection	IP 20 / DIN 40050
Dimensions (X x Y x Z)	170 x 170 x 46 mm
Weight	450 g

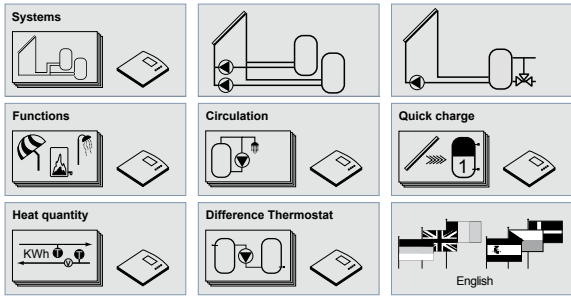
Technical data at 25 °C / 77 °F

[areas of application]



[inputs/outputs]



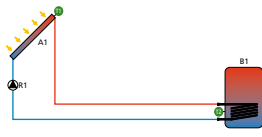


Display examples

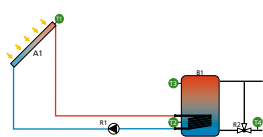
The display examples shown here are merely a selection, designed to show the many and diverse function displays of the solar controller Steca TR 0402.

Systems with one storage tank

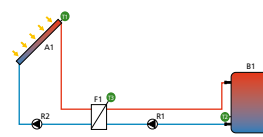
1 collector array



Internal heat exchanger, intelligent pump control



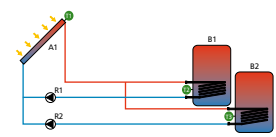
Internal heat exchanger, intelligent pump control, heating return increase



External heat exchanger, intelligent pump control

Systems with two storage tanks

1 collector array



Internal heat exchanger, intelligent pump control