



## Steca TR 0301 U

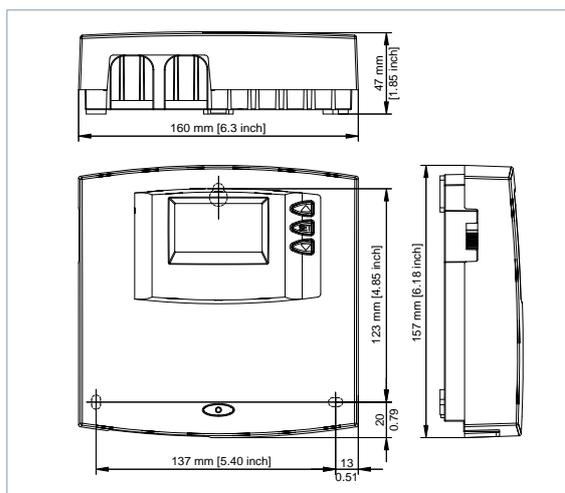
3 inputs,  
1 output

The Steca TR 0301 U controller was specially developed for the North American market based on the Steca TR 0301 basic controller. With its special certification (ETL label) from a Nationally Recognized Testing Laboratory (NRTL) in the US, the controller meets the safety standards and minimum requirements of the North American market.

A feature of the Steca TR 0301 series of controllers is the animated graphic display, which offers a complete visualisation of the solar energy system's operating status and solar circuit.

The clearly arranged display ensures easy operation using pictograms. The controller is jointly designed with an internationally renowned design centre. The controller is used for monitoring and controlling solar thermal systems with one collector array and one storage tank. In addition, the controller performs important system monitoring and safety functions to ensure safe and long-lasting operation of the entire system. The numerous additional functions of the Steca TR 0301 U also include a maximum storage tank temperature function, a tube collector function, an anti-freeze function, a holiday and storage recool function as well as a choice of temperature indications in either degrees Celsius (°C) or Fahrenheit (°F). The operational safety of the system is supported by a sophisticated fault diagnosis. The multi-coloured LCD backlighting ensures quick and safe location of occurring errors and facilitates quick troubleshooting.

The Steca TR 0301 U controller is supplied with a pre-fitted US mains connection cable and a preinstalled, pluggable pump output.



### Product features

- Compact, multipart designer casing
- Maximum storage tank temperature
- High level of operational safety through fault diagnosis
- Temperature display °C / °F
- Collector overtemperature disconnection
- Spring clamp terminals allow rapid and easy installation

### Displays

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

### Operation

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

### Functions

- Holiday (storage tank recooling)
- Interval / tube collector
- Anti-freeze
- Display storage tank top

	TR 0301 U
System voltage	120 V AC, 60 Hz optional 240 V AC, 60 Hz
Own consumption	≤ 1 W [≤ 0.001 HP]
Inputs	3 3 x temperature (Pt1000)
Output	1 1 x switch output relay (R1), max. 400 W / 0.5 HP (120 V AC) or 800 W / 1 HP (240 V AC)
Line cord	75 inch, 3 x 18 AWG at 221 °F
Turn-on temperature difference	8 K [46.4 °F]
Turn-off temperature difference	4 K [39.2 °F]
Ambient temperature	0 °C [+32 °F] ... +45 °C [+113 °F]
Degree of protection	IP 20 / DIN 40050
Dimensions (X x Y x Z)	160 x 157 x 47 mm [6.3 x 6.18 x 1.85 inch]
Weight	350 g [12.35 oz]
Temperature sensors 2 x Pt1000	Collector sensor: 1.5 m [59 inch] silicone cable with bushing (Measuring range up to + 180 °C [+356 °F]); Storage tank sensor: 0.3 m [11.8 inch] twisted single conductor flat surface sensors with compression cable lug (Measuring range up to +105 °C [222 °F])

Technical data at 25 °C / 77 °F

### System with one storage tank

#### 1 collector array



Internal heat exchanger, intelligent pump control

[areas of application]



[inputs/outputs]

