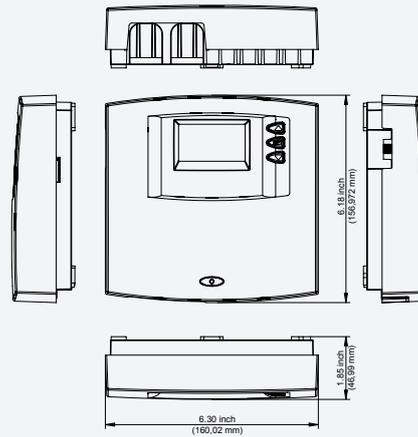




Technical data


3
INPUTS

1
OUTPUT

Steca TR 0301 U

The TR 0301 U controller was specially developed for the North American market based on the TR 0301 basic controller. With its highly fireproof case and special certification (ETL label) from a Nationally Recognized Testing Laboratory (NRTL) in the US, the controller meets the safety standards and minimum requirements needed in order to be sold and distributed in North America.

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

The clearly arranged display ensures easy operation using pictograms. The controller was jointly designed with an internationally renowned design centre. The controller is used for monitoring and controlling solar thermal systems which have a collector array and a storage tank. In addition, the controller also has important system monitoring and safety functions to ensure safe and durable operation of the entire system. The numerous additional functions of the TR 0301 also include the option of limiting the storage tank temperature, a tube collector function, an antifreeze function, a holiday and storage re-cool 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 backlight ensures quick and safe location of occurring errors and facilitates quick troubleshooting.

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

Temperature Differential Controller	TR 0301 U
System voltage	120 VAC, 60 Hz [optional 240 VAC, 60 Hz]
Max. own consumption	≤ 1 W (≤ 0.001 HP)
Inputs	3 3 x temperature recording (Pt1000)
Output	1 Switch relay; switching performance max. 400 W (0.5 HP [120 V~]) or 800 W (1 HP [240 V~])
Turn-on temperature difference	8 K (46.4 °F)
Turn-off temperature difference	4 K (39.2 °F)
Operation temperature range	0 °C ... +45 °C (32 ... +113 °F)
Animated LCD-Display	2 colour backlight
Protection class	IP 20/DIN 40050
Weight	0.55 kg (19.54 oz) including cable
Dimensions l x w x h	160 x 157 x 47 mm 6.3" x 6.18" x 1.85"
Temperature sensors 2 x Pt1000	Collector sensor: 59 inch (1.5 m) silicone cable with bushing (Measuring range up to +356 °F (+ 180 °C)) Storage tank sensor: 11.8 inch (0.3 m) twisted single conductor flat surface sensors with compression cable lug (Measuring range up to 222 °F (+105 °C))



Features

- Backlight LCD-Display
- Animated representation of solar system functions
- Compact, 3-piece designer case
- Anti-freeze function
- Tube collector function
- Holiday (storage re-cool) function
- Limitation of storage tank temperature
- Temperature display for storage tank and collector
- Pump operating status display
- Temperature sensor monitoring and system monitoring
- Temperature display °C / °F

System examples

