Steca TR A501 T U

5 inputs, 1 output

The Steca TR A501 T U controller was especially developed as a compact, efficient and universally applicable solar controller and is the ideal solution for all single-circuit systems. The particularly compact designer casing can be superbly integrated into solar pump stations, but can of course also be installed on walls or top-hat rails.

A specially constructed switched-mode power supply ensures maximum efficiency and economic operation. This reduces own consumption to a minimum and the variable input voltage allows universal use of the device anywhere in the world. The innovative electronic load control technology protects the controller against overloading and installation errors.

The Steca TR A501 T U has a triac output for speed control that can also be used as a 0-10 V output (PWM output on request) for controlling a high-efficiency pump. The equipment is rounded off by five inputs for recording temperature and pulses.

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

The clear, graphically animated display provides visualisation of the system and the current operating status. The consistent use of pictograms guarantees easy operation of the controller.

The Steca TR A501 T U controller is especially suitable for monitoring and controlling solar thermal systems with a single collector array or simple solar-heated swimming pools. Alternatively, numerous pre-programmed configurations are provided for individual use in other applications, such as back-up heating, solid fuel boilers, thermostats, differencial thermostats / storage tank reloading, return increases and circulation systems.





The Steca TR A501 T U also provides important system monitoring and safety functions, such as special error displays for rapid correction of system malfunctions. This ensures long-term, safe and reliable operation of the entire solar system.

Product features

- · Compact, multipart designer casing
- Installation versions: Solar pump stations, wall installation, mounting rails
- Wave packet (Triac) and 1-10 V control signal (PWM control signal on request) ensure electronic RPM control
- · High level of operational safety through fault diagnosis
- · Hours-of-operation logger
- · 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

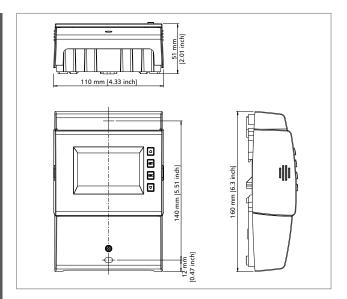
- · Multifunction graphical LCD display with backlighting
- · Animated representation of the systems and operating states

Operation

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

Functions

- · Heat quantity (pulse generator, determination)
- \cdot Display showing CO_2 savings
- · Drain back
- · Reduction of stagnation phases
- · Holiday (storage tank recooling)
- · Storage tank quick charge
- Interval / tube collectorAnti-freeze
- Display storage tank top



	TR A501 T U
System voltage	115 V AC 230 V AC, 50 Hz / 60 Hz
Own consumption	≤ 0.8 W
Inputs	5 4 x temperature (Pt1000) 1 x temperature (Pt1000) or pulse
Outputs	1 1 x Triac for speed control (R1), max. 130 W / 0.17 HP (120 V AC) or 0 - 10 V control signal for pump speed (0 - 10 V R1) / PWM control signal on request
Hydraulic schemes	8
Ambient temperature	0 °C [+32 °F] +50 °C [+122 °F]
Degree of protection	IP 22 / DIN 40050 [without front panel: IP 20]
Dimensions (X x Y x Z)	110 x 160 x 51 mm [4.33 x 6.3 x 2.01 inch]
Weight	300 g [10.58 oz]

Technical data at 25 °C / 77 °F

Areas of application:







Solar thermal systems Internal heat exchanger, intelligent pump control Direct flow-through, intelligent pump control Further system types

