



SR001



A MULTI-SYSTEM THERMAL SOLAR ENERGY TEMPERATURE CONTROLLER WHICH CONTROLS THERMAL SOLAR ENERGY DEVICES

Overview

Main features

- Management of 13 Systems
- Boost feature can be used manually or can be programmed

Application

- Management of solar thermal systems

Product + points

- **Environmentally-friendly / economical mode:** synchronisation of off-peak periods
- **Production indicator in terms of heat and kWh**
- **Ergonomic to use and to set:** large display with red/blue backlighting to differentiate installation and use; an intuitive interface
- **Anti-freeze protection**

Functional specifications

Use



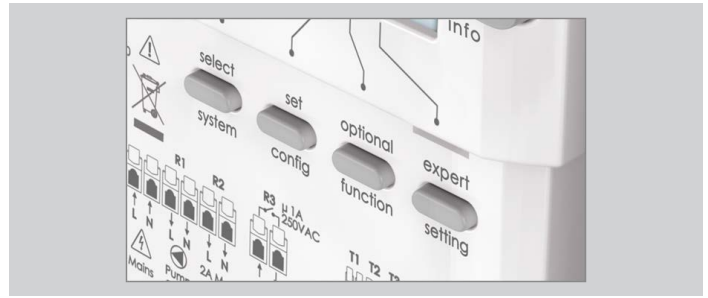
Management of 13 Systems	This means that industrial systems integrators and distributors can have a single product in stock which covers all applications
Management of the temperature differential	
Auto Maximum Mode	Priority to comfort: all types of energy can be used to ensure domestic hot water at the right temperature.
Environmentally-friendly / Economical Mode	Only solar energy is used, to reduce the consumption of energy
Holiday Mode	Temperature in the solar energy circuit and in the tank is automatically during the night
Boost mode	Enables you to ensure, on either an occasional or a daily basis, using back-up hydraulic heating or the electrical resistance, the maintenance of the desired temperature during periods of very high domestic water use. Thus you have the benefit of an increased level of comfort
Monitoring : running mode, selected system, information and statistics, user / installer settings	
Indicator which provides heat amounts	Solar energy contribution in kWh
Management of one or two hot-water tanks (or of a swimming pool or tank with double exchanger)	
Optimised use of back-up heating (electric or hydraulic)	
Management of East/West sensors	
Control of the speed of the pump	
Protection of solar panels against high temperatures. Start-up in cold weather	
Statistics for the activity of pumps and for the electrical resistance	
Clear and complete information	Overall view ; systems and temperature data are easy to understand
Test mode	Manual control of outputs during setting of the system
Spare fuse	
Optimised kit	Temperature sensors included or available as an optional extra

Installation

3 fitting options: wall mounting, on DIN rails or product integrated into a solar hydraulic pump station

3 secure access levels: wiring, installation, use

Connection tasks are quick and do not involve the use of screws, simplifying things for you and saving you time




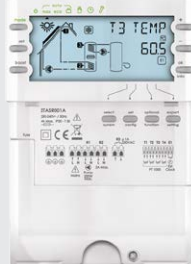
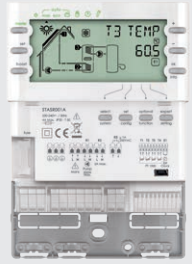

Large size LCD display

User and normal operation modes	Installer and malfunction and fault reporting modes

Overview of the 13 systems

<p>System 1 - SR</p> <p>System used to manage a DHW (domestic hot water) solar energy system with back-up electric heating</p>	<p>System 2 - SRPC</p> <p>System used to manage a DHW (domestic hot water) solar energy system with control of pump speed (RPM) and back-up electric heating</p>	<p>System 3 - HY</p> <p>System used to manage a DHW (domestic hot water) solar energy system with back-up electric and hydraulic heating</p>	<p>System 4 - HYPC</p> <p>System used to manage a DHW (domestic hot water) solar energy system with control of pump speed and back-up electric and hydraulic heating</p>
<p>System 5 - EHEX</p> <p>System used to manage a DHW (domestic hot water) solar energy system with an external heat exchanger and back-up electric heating</p>	<p>System 6 - POOL</p> <p>System used to manage a solar energy system for a swimming pool</p>	<p>System 7 - PEHE</p> <p>System used to manage a solar energy system for a swimming pool with an external heat exchanger</p>	<p>System 8 - 2TKV</p> <p>System used to manage a DHW (domestic hot water) solar energy system with two storage tanks, a 3-channel valve and back-up electric heating</p>
<p>System 9 - 2TKP</p> <p>System used to manage a DHW (domestic hot water) solar energy system with two storage tanks, a second pump and back-up electric heating</p>	<p>System 10 - HYSF</p> <p>System used to manage a DHW (domestic hot water) solar energy system with back-up intelligent hydraulic heating provided by a solid fuel boiler and also with back-up electric heating</p>	<p>System 11 - HRI</p> <p>System used to manage a solar energy system with the temperature of the water coming in from the solar energy system being increased by the central heating system</p>	<p>System 12 - E/W</p> <p>System used to manage a DHW (domestic hot water) solar energy system with fields of East/West sensors (F1/F2) and back-up electric heating</p>
<p>System 13 - 2LV</p> <p>System used to manage a DHW (domestic hot water) solar energy system with a layered tank, a 3-channel valve and back-up electric heating</p>			

Interfaces

<p style="text-align: center;">User</p> 	<p style="text-align: center;">Installer (for settings)</p> 
<p style="text-align: center;">Wiring</p> 	<p style="text-align: center;">Terminal block cover with integrated fuse-holder (inside view)</p> 

Technical specifications

Dimensional and finish specifications

Height	155 mm	
Width	110 mm	
Depth	45 mm	
Color	White RAL 9016	Black RAL 9005
Net weight	0.7 Kg	

Power supply

Voltage when in use	230V +/- 10% 50Hz
Sensor inputs	4-inputs for PT1000 temperature sensors: T1, T2, T3, T4
One time-synchronisation input (off-peak periods time-switch, rates clock, etc.)	1, controlled by a voltage-free relay contact using a time-switch: E1
Relay semi-conductor output	1, for direct control, 200W maximum: R1
Relay output	1, for direct control, relay 2A maximum: R2
Relay output	1, 1A maximum 250V, voltage free

Environment

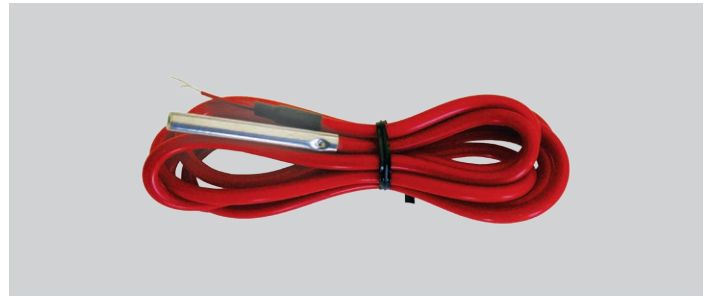
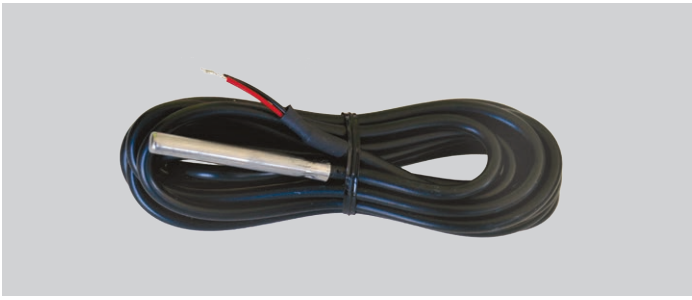
Protection rating	IP20
Operating temperature	0°C to +40°C
Storage temperature	-20°C to +70°C
Max. humidity level	85% at +25°C (without condensation)

Applicable directives

EMC	2014/30/EU
LVD	2014/35/EU
RoHS	2011/65/EU

Applicable standards

LVD	EN60730-1 ; EN60730-2-9 ; EN 62311
EMC	EN60730-1 ; EN60730-2-9
RoHS	EN50581
Manufacturing	On certified site ISO 9001 V2008



Product codes

Codes	References
STASR001A	Thermal solar energy temperature controller, three PT1000 sensors

Compatible product(s) (Sold separately)

Codes	References
STAPT15HTA	High temperature PT1000 sensor, 1.5m cable
STAPT25NTA	Normal temperature PT1000 sensor, 2.5m cable

Product customization (design features) possible. Please contact us.

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