Accessories on demand

Sheaths for the insertion of probes Art. R.140.85 and R.140.88.

To order please go to our website: www.antaresint.com



Before calling a technician, check...

If the device does not turn on: Check that all the 230V cables are firmly connected the terminal block's poles 1 and 2. Check if the mains power supply is present.

The control unit works well but cannot drive the appliances: Check that all the wiring is correct. Please remind that all relays are free of voltage. Check that the resistive values are right. Please see table on the side.

PROBES

Conversion from temperature to ohmic value of the probes

Temp.	Resistive values	Temp.	Resistive values
0°C	155.820	10°C	94.523
30°C	37.704	40°C	24.695
50°C	16.533	60°C	11.296
70°C	7.865	80°C	5.573
95°C	3.427	100°C	2.936



TO BE FILLED AFTER INSTALLATION Purchase date Registration number Stamp and signature of the dealer

In agreement with its continuous development policy, ANTARES reserves the right to modify its products without notice.



SOLAR CONTROL

T.125.02



The **SOLAR CONTROL** thermostat is an electronic instrument based on **ANTARES**'s many years of experience in temperature control.

This device allows maintaining precise control of the temperature of the solar panels connected to the boiler's sanitary hot water.

It detects the boiler water temperature through the 3 provided sensors and compares it with the solar panels fluid.

When the panels temperature is higher than the boiler's water, the control unit starts the pump allowing thermal exchange between panels and boiler.

Its second main function is to use a supplementary source of heat when the temperature is lower than the set integration temperature.

In order to ensure a perfect thermal exchange, the device is fitted with a "delta T" temperature differential that varies from 1 to 9°C, and can be regulated using the knob on the thermostat front panel.

Thanks to the 3-module Omega-type format, you can build several systems exploiting the modularity of the DIN rail in the previously set electrical panels.

Checking package contents

N. 1 SOLAR CONTROL T.125.02 control unit

N. 3 Temperature probes in thermoplastic weatherproof case, immersion version with IP55 protection degree



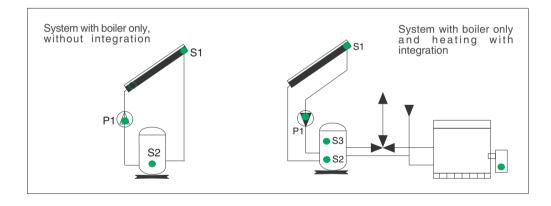
Important Note

Before connecting the unit careful reading of instruction booklet is recommended, and it is kept in a safe place for future reference. Furthermore, the correct electrical connections according to the enclosed drawings, complying with instructions and regulations in force, is recommended.

Technical Specifications

Power supply	230V~ ±10% 50Hz
Power demand	1 VA
Relay Contact Range	10A 250V resistive 5A 30V resistive
Free of voltage contacts Type of sensors Functioning temperature sensors Accuracy Resolution Max. distance between probes and unit Cable diameter for connecting probes Integration Switch Force pump switch on the panel Functioning temperature Storage temperature Humidity limits Electromagnetic Compatibility "CE" Degree of protection Omega-type size DIN EN 50092 3 modules Mounting	

System Types



INSURANCE. This device is insured by the SOCIETÀ REALE MUTUA for the PRODUCT'S GENERAL LIABILITY up to a maximum of 1,500,000.00 EURO against damages caused by the device in case of failures in functioning.

WARRANTY. The warranty term is 2 years from manufacturing date, in agreement with the following conditions. The components acknowledged as faulty will be replaced free of charge, excluding the replacement of plastic or aluminium cases, bags, packing, batteries and technical reports. The device must arrive free of shipment charges to ANTARES. Defects caused by unauthorized personnel tampering, incorrect installation and negligence resulting from phenomena outside normal functioning shall be excluded from the warranty. ANTARES is not liable for possible damage, direct or indirect, to people, animals, or things; from product faults and from its enforced suspension of use.

T.125.02 Components and Commands

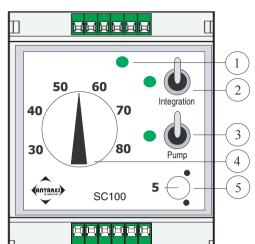
- 1) "Power connected" LED, thermostat working.
- 2) Automatic/Manual Switch for sanitary hot water integration.

AUTOMATIC. By setting the switch up, you select the automatic functioning.

The automatic functioning works according to the temperature set using the graduated knob from 30°C to 80°C. Please see point No. 4

MANUAL. By setting the switch down, you select the manual functioning. When selecting the manual functioning, the integration is always ON.

- 3) Forced pump insertion switch, between boiler and panel. By setting the switch down, you select to forcedly insert the circulation pump between panel and boiler.
- 4) Temperature selection knob. It is used to set the desired sanitary hot water temperature before activation of the integration.



5) DELTA T knob on the panel. It is used to program the temperature difference between BOILER and PANEL. It was set to 5°C in the factory.

To change the temperature difference, proceed as follows:

If you turn the knob clockwise, the difference decreases, if you turn it counter clockwise, it increases.

