Power supply: 230V~ ±10% 50Hz Power absorption: <2 VA

Sensors type: 3 x NTC 10K @ 25 °C ±1 % Sensor operating range: -50 °C .. +200 °C (collector)

-50 °C .. +110 °C (boiler) Temperature reading range: -20 °C .. 180 °C

Accuracy: ±2°C

Resolution: 0,1°C (-20°C .. 144,9°C)

1°C (145°C .. 180°C)

Offset adjustment: on S1: ±5.0°C on S2: ±5.0°C

on S3: ±5.0°C

Installer Password: 0000 .. 9999 (default 0000)

On/Off (default On) Acoustic Signal: Backlight timing: 20 sec from last keypress OUT2 Relay Logic: NOR=N.O. REV=N.C.

(default N.O.)

Contacts rating:

OUT 1 relay: 2(1)A max 250V~ (SPST)

Voltage free

OUT 2 relay: 8(1)A max 250V~(SPST)

Voltage free

Alarm relay contacts rating: 4(1)A max 250V~ (SPDT)

Voltage free

Output Signal:

PWM: Amplitude: 10V ±15%

1KH₇ Frequency: Current: 15mA max.

0V..10V ±10%@10V 0..10V: Amplitude:

> Minimum load: 10K0hm.

Max allowed PWM / 0...10V

cable length: < 3m. Protection grade: IP 40 Type of action:

Overvoltage category: Ш Pollution degree: 2 Tracking Index (PTI): 175

Class of protection

against electric shock: Ш Rated impulse voltage: 2500V Number of manual cycles: 50000 Number of automatic cycles:100000

Software class:

230V~ 50Hz EMC test voltage:

EMC test current: 34mA

Distances tolerances fault mode 'short' exclusion: ±0.15mm

Ball pressure test

75°C temperature: 0°C .. 40°C Operating temp. range: Storage temp. range: -10°C .. +50°C **Humidity limits:** 20% .. 80% RH

non-condensing

Case: Material: ABS V0 self-extinguishing Color:

Signal White (RAL 9003) 156 x 108 x 47 (W x H x D) Dimensions:

Weight: ~672 gr.

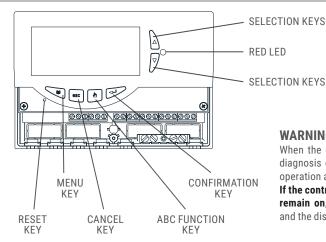
(version with probe)

~553 gr.

(version without probe)

Installation: Wall-mount

COMMANDS DESCRIPTION



WARNING!

When the control unit is turned on it will carry out a diagnosis of the internal circuitry to verify its correct operation and the red led will flash three times.

If the control unit reveals no anomalies the red led will remain on, otherwise it will continue to flash quickly and the display will show the type of error.

TDST24M100SE 042177 200923

ELIOS MIDI DIGITAL CONTROL UNIT FOR THERMAL SOLAR SYSTEMS





CONTACT US

customer.care@seitron.it

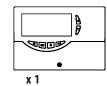


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SCAN THE QR CODE AND DOWNLOAD THE COMPLETE USER MANUAL.

WHAT'S IN THE PACKAGE



x 1 (blue cable) NTC probe 10K 0hm @25°C ±1%. -50°C .. +200°C

x 2 (yellow cable) NTC probe 10K 0hm @25°C ±1%, -50°C .. +110°C

Quick Guide



x 6 (white)

Plugs for cable ingress holes





x 6 (black)

Cable retainer if the cables are mounted from the underside



Chipboard screw 4x35 mm

WARRANTY

The user is guaranteed against the product's defects of conformity according to European Directive 2019/771 as well as the Seitron warranty terms, available online on the website www.seitron.com.

We invite the user to visit our website and check the latest version of technical documents, manuals and catalogs.

INSTALLATION



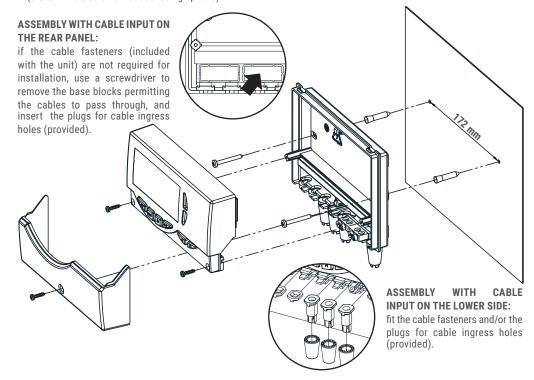


WARNING!

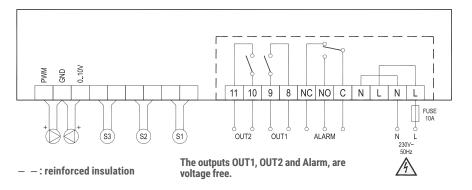


CAREFULLY READ THE COMPLETE INSTRUCTION MANUAL

- · The installation technician shall operate in full compliance with all the applicable technical standards in order to grant the unit safety.
- Before wiring the appliance make sure to turn the mains power off.
- Installation and electrical wirings of this appliance must be made by qualified technicians and in compliance with the current standards.
- When closing the unit please ensure that the removable wiring terminals have been inserted with the correct orientation (the terminals screws must be facing upward).



WIRING DIAGRAM



WARNING!

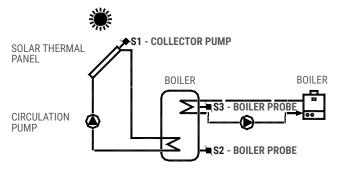
It is advisable to fit a 10A 250V~ fuse on the power unit mains capable to intervene in case of short circuits on loads.

OUT1: Circulation pump output
OUT2: Integrative source output

TERMINAL BOARD GROUNDING: On the base of the control unit case is located a brass terminal board for connecting the ground protection conductors of the load devices connected to the control unit.

- S1: NTC temperature probe (probe supplied with blue cable), with -50°C..+200°C range, to connect it to the collector.
- S2: NTC temperature probe (probe supplied with yellow cable), with -50°C..+110°C range, to connect it to the bottom of the boiler (cold zone).
- S3: NTC temperature probe (probe supplied with yellow cable), with -50°C..+110°C range, to connect it to the bottom of the boiler (cold zone).

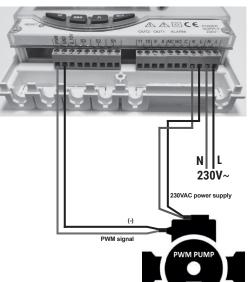
Standard example for the placement of the three supplied probes:





SEITRON IS THE MANUFACTURER OF THE UNIT.
CONSIDERED THE WIDE RANGE OF CIRCULATORS THAT CAN BE COMBINED, THE FOLLOWING DIAGRAMS
ARE TO BE CONSIDERED AS INSTALLATION EXAMPLES. REFER TO THE CIRCULATOR MANUAL FOR
CORRECT CONNECTION AND PARAMETER SETTING.

WIRING EXAMPLE ONLY FOR SOLAR CIRCULATORS IN ACCORDANCE WITH DIRECTIVE Erp 2015 WITH EXTERNAL PWM SIGNAL.



EXAMPLE OF CONNECTION FOR 3-SPEED SOLAR CIRCULATORS WITH WET or "HIGH EFFICIENCY" ROTOR COMPLIANT WITH DIRECTIVE ErP 2015, WHICH DOES NOT REQUIRE AN EXTERNAL PWM SIGNAL (WITHOUT A CONNECTOR FOR PWM).

