



## Description

**BASIC Series** electronic control units provide a synoptic that enables you to monitor system status by means of the LCD display: fluid temperature in storage tank, temperature difference between solar collector and system circuit, solar collector temperature, fluid temperature at bottom of tank, pump operating status. When the sun heats the solar collector to a temperature exceeding the temperature in the water heater, the electronic control actuates the pump built into the **FlowBox Series** units.

**Circulator control On-Off mode, not compatible with PWM control signal.**

### BASIC



Electronic control unit for solar panel systems with LED operating status indicator lights. Pt1000 sensors (ST Series - art.PPLELE00060) for solar collector, tank and auxiliary included as standard. 2 x 230VAC-8A relay outputs for controlling heating circuit and solar circuit pumps (ON-OFF). Easy to use, with just three pushbuttons. Solar circuit pump starts up automatically according to the temperature difference between the solar collector and the tank: 4-30°C (default 8°C). Maximum tank temperature control: 30-90°C (default 90°C). Tank temperature control with auxiliary sensor: 0-85°C (default 50°C). Solar circuit protection:

- against overtemperature: 100-200°C (default 140°C);
- with operation of pump for 15 sec. if unused for 5 days.

IP rating: IP42. Power supply: 230VAC-50Hz.

Type	Part No.	No. of sensors
BASIC	P03686	2 (L = 3 m + L = 1.5 m)
BASIC	P03752	3 (two L = 3 m + one L = 1.5 m)

### ST



Pt1000 temperature sensors.

- in silicone sheath, up to 105°C, length 3 metres (suitable for tank);
- in PVC sheath, up to 180°C, length 1.5 metres (suitable for solar collector).

Type	Part No.	No. of sensors
ST	PPLELE00061	Length 1.5 m - 180°C
ST	PPLELE00060	Length 3.0 m - 105°C

Technical features	BASIC	PLUS
Operating temperature	0-50°C	0-50°C
IP rating	IP42	IP20
Supply voltage	230VAC +/- 10% Hz	230VAC +/- 10% Hz
Outputs: P1 – main pump P2 – secondary pump P3 – auxiliary contact	8A 250VAC relay - 8A 250VAC relay	1 A 230V triac, min. load > 1 W 1 A 230V triac, min. load > 1 W 2A 250VAC relay
Inputs: Temp. sensor, coll. 1 Temp. sensor, coll. 2 Temp. sensor, tank 1 Temp. sensor, tank 2 Temp. sensor, extra Flow meter sensor Flow rate sensor Pressure sensor	Pt 1000 (1.5 m – 180°C) - Pt 1000 (3 m – 105°C) - - - - -	2 x Pt 1000 (1.5 m – 180°C) Pt 1000 (1.5 m – 180°C) Pt 1000 (3 m – 105°C) Pt 1000 (3 m – 105°C) Pt 1000 (3 m – 105°C) 5V pulse analogue analogue

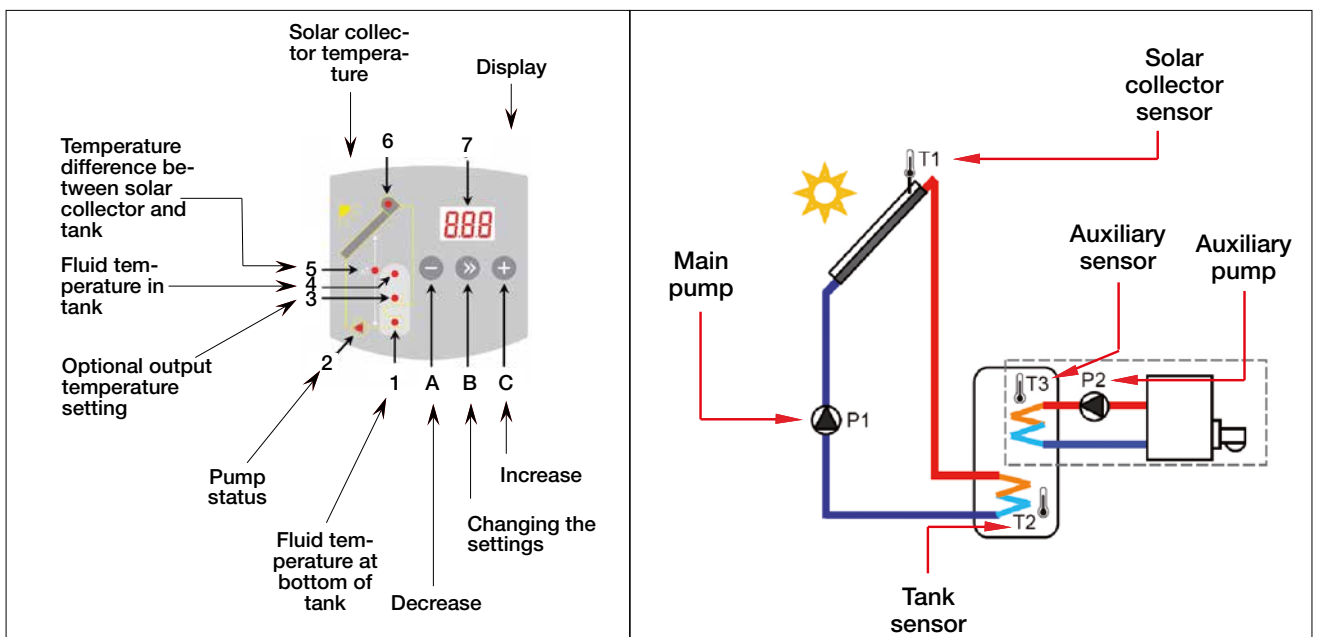
## Application

### BASIC

**BASIC Series** electronic control units are used to manage and control forced-circulation solar thermal systems with one solar collector, one tank and one pump (+ one solar pump). The front panel of the control unit shows a schematic of the system configuration, and LEDs indicate the operating status of the individual components. The unit is easy to use and programme with just three pushbuttons, and depending on the parameter selected (pushbutton B), the display (7) shows the following:

- fluid temperature at bottom of tank (1);
- fluid temperature in tank (4);
- temperature difference between solar collector and tank (5);
- solar collector temperature (6);
- optional output temperature setting (3).

The LED (2) shows the pump operating status. Changing the settings: pushbutton A (decrease), C (increase).



## Electrical connections

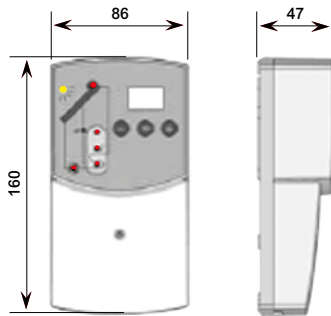
### BASIC



## Overall dimensions (mm)

---

### BASIC



## Specification text

---

### **BASIC Series**

Electronic control unit for solar panel systems **BASIC Series** – WATTS brand – with LED operating status indicator lights. ST Series Pt1000 sensors for solar collector, tank and auxiliary included as standard. 2 x 230VAC-8A outputs for controlling heating circuit and solar circuit circulation pumps. Easy to use, with just three pushbuttons. Solar circuit pump starts up automatically according to the temperature difference between the solar collector and the tank: 4-30°C (default 8°C). Maximum tank temperature control: 30-90°C (default 90°C). Tank temperature control with auxiliary sensor: 0-85°C (default 50°C). Solar circuit overtemperature protection: 100-200°C (default 140°C) and operation of pump for 15 sec. if unused for 5 days. IP rating: IP42. Power supply: 230VAC – 50Hz.

**Circulator control On-Off mode, not compatible with PWM control signal.**

---

The descriptions and photographs contained in this product specification sheet are supplied by way of information only and are not binding.

Watts Industries reserves the right to carry out any technical and design improvements to its products without prior notice. Warranty: All sales and contracts for sale are expressly conditioned on the buyer's assent to Watts terms and conditions found on its website at [www.wattsindustries.com](http://www.wattsindustries.com). Watts hereby objects to any term, different from or additional to Watts terms, contained in any buyer communication in any form, unless agreed to in a writing signed by an officer of Watts.

---

**WATTS®**

**Watts Industries Italia S.r.l.**

Via Brenno, 21 • 20853 Biassono (MB) • Italy  
Tel. +39 039 4986.1 • Fax +39 039 4986.222  
[infowattsitalia@wattswater.com](mailto:infowattsitalia@wattswater.com) • [www.watts.com](http://www.watts.com)