



*heating and plumbing products
that won't cost the earth*

solarlogic
solar temperature
differential controller



solar temperature differential controller

Description

The solarlogic is designed for use with solar thermal systems. A true multi-function device, it provides much more than just temperature differential control. From a simple system controller, its powerful and comprehensive presets extend over 12 more pre-programmed system configurations plus further options reserved for individual OEM requirements - all at the press of a button.

Key features:

- anti-legionella function
- pump speed control
- winter cold start feature
- 3 relay switching
- 3 temperature sensors included (4th is optional)
- 13 solar system configurations - basic through to "East-West"
- 2 cylinder control options
- Input for time sync to "off-peak" electric tariffs
- Optimised back up heat - electric/CH boiler or both
- Heat quantity measurement
- System operating temperatures readout
- Collector or cylinder cooling functions & high temperature protection
- Programmable daily boost (can be used for 1 hour boost or as a daily operation of between 1 & 9 hours) No time clock required.

Key specifications:

Class II, IP20 (stand-alone product)
0° - 50°C, 85% RH non condensing condition at 25°C

Controller dimensions:

110mm wide, 155mm high, 45mm deep.

Display:

85mm wide x 43mm high

Simple to install and operate

No matter how feature packed a product is, if it's difficult to install, programme and use, in reality, it's of little use.

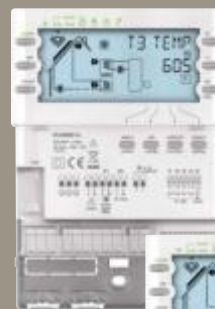
That's where the solarlogic is different. It's true that the design incorporates market leading functionality, but its main strength and appeal lies in the fact that it's simplicity itself to set up.

When ready for installation, the controller presents three different views, the wiring view; the installer's setting view; and finally, the user's view.

Because the screen is the widest currently on the market, it's capable of presenting all relevant information for each in an easy-to-digest way, giving a clear overview & understanding of the installation and settings, making each phase of the process easy to accomplish.



solarlogic
system controller



wiring view



user's view

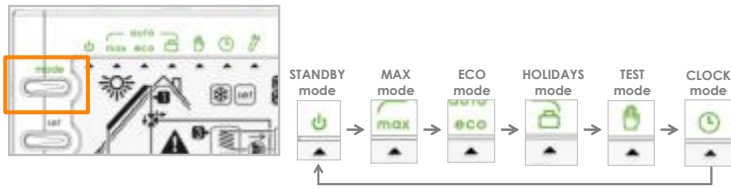


installer's view

solar temperature differential controller

Capturing the full potential of solar heating systems can be a very complex operation. The solarlogic has re-written the rule book completely with most operational changes accomplished by a single button push.

User's keys



Identify the “MODE” button and choose the most appropriate mode by a single push to cycle through the available options as follows:

- STANDBY: means OFF (safety features maintained)
- MAX: means solar & backup heating features run
- ECO: means solar operation only
- HOLIDAYS: means cool the cylinder at night when no hot water required next day
- TEST: means pump can be turned on manually
- CLOCK: allows a boost of backup heated hot water or programming of a daily boost.

When the most appropriate selection has been chosen, simply press the “SET” button to complete the operation.

The “OK INFO” button at the right of the display allows the user to view system information. Use the “+” and “-” buttons to cycle through the available information e.g. panel temperature, cylinder temperature and more.

Setting the controller to match the system

For the installer, setting up the controller to match the system itself is a simple operation thanks to the number of standard configurations available (see next page).

Press the “SELECT SYSTEM” button. System 1 will appear first. If the system diagram shown matches the installation, press “SET CONFIG” to complete the operation.

If it doesn't match, press “SELECT SYSTEM” again and System 2 appears. Repeat the process to step through all 13 configuration options until the diagram matches the installation. Then press “SET CONFIG” to complete the operation.

Other “OPTIONAL” features and “EXPERT” settings are available and these are detailed in the manual supplied with the controller. Using these modes allows access to the anti-legionella mode, various safety settings such as panel or cylinder cooling as well as the option to alter factory settings.



solarlogic showing installer's keys



solarevent
solar temperature differential controller

Thirteen standard system settings should cater for most solar systems, making installation and operation simplicity itself.

System 1
Basic solar system with electrical backup heating

System 2
Basic solar system with solar pump speed control & electric backup heating

System 3
Basic solar system with hydraulic and electric backup heating

System 4
Solar system with solar pump speed control and hydraulic and electrical backup heating

System 5
Basic solar system with external heat exchanger and electric backup heating

System 6
Basic solar system for swimming pool heating

System 7
Basic solar system for swimming pool heating with external heat exchanger

System 8
Solar system with two hot water cylinders or a two layer cylinder, 3 port diverting valve and electric backup heating

System 9
Solar system with two hot water cylinders or a two layer cylinder, 2 solar pumps and electric backup heating

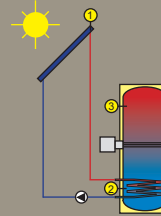
System 10
Solar system with smart hydraulic backup from solid fuel boiler and electric backup heating

System 11
Solar system with heating return increase (HRI)

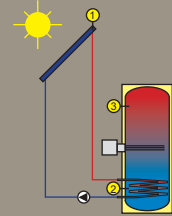
System 12
Solar system with East/West collector arrays and electric backup heating

System 13
Solar system two layer cylinder, 3 way valve and electric backup heating

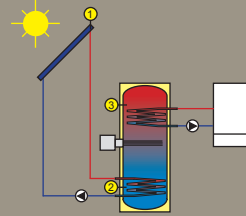
System 1



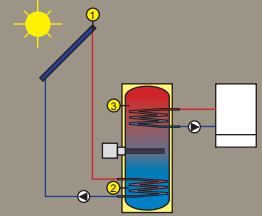
System 2



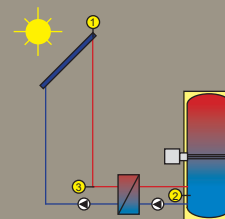
System 3



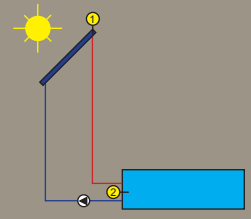
System 4



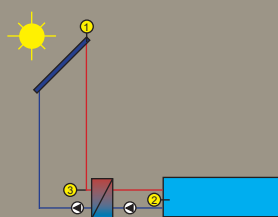
System 5



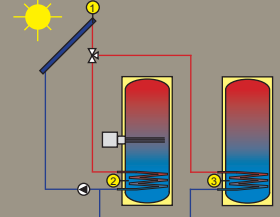
System 6



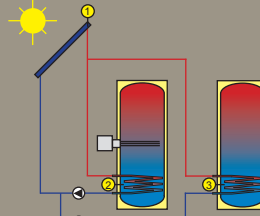
System 7



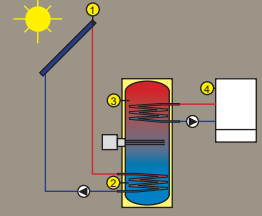
System 8



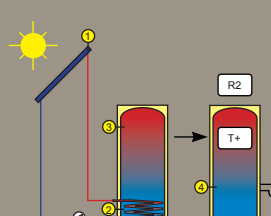
System 9



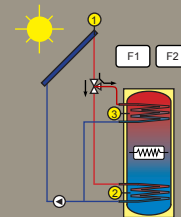
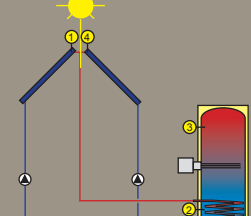
System 10



System 11



System 12



System 13



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