

A comprehensive solution for the home.



solarcache is a clever device that not only redirects excess energy that the Sun has produced so that it is used in your home and not lost to the Grid, but is also a comprehensive energy monitor.



solarcache *touch* is our latest device. Attractive and feature rich whilst still easy to install, set up and use.



Installation

Modular in design, solarcache *touch* can be configured in many different ways depending on each household's requirements.

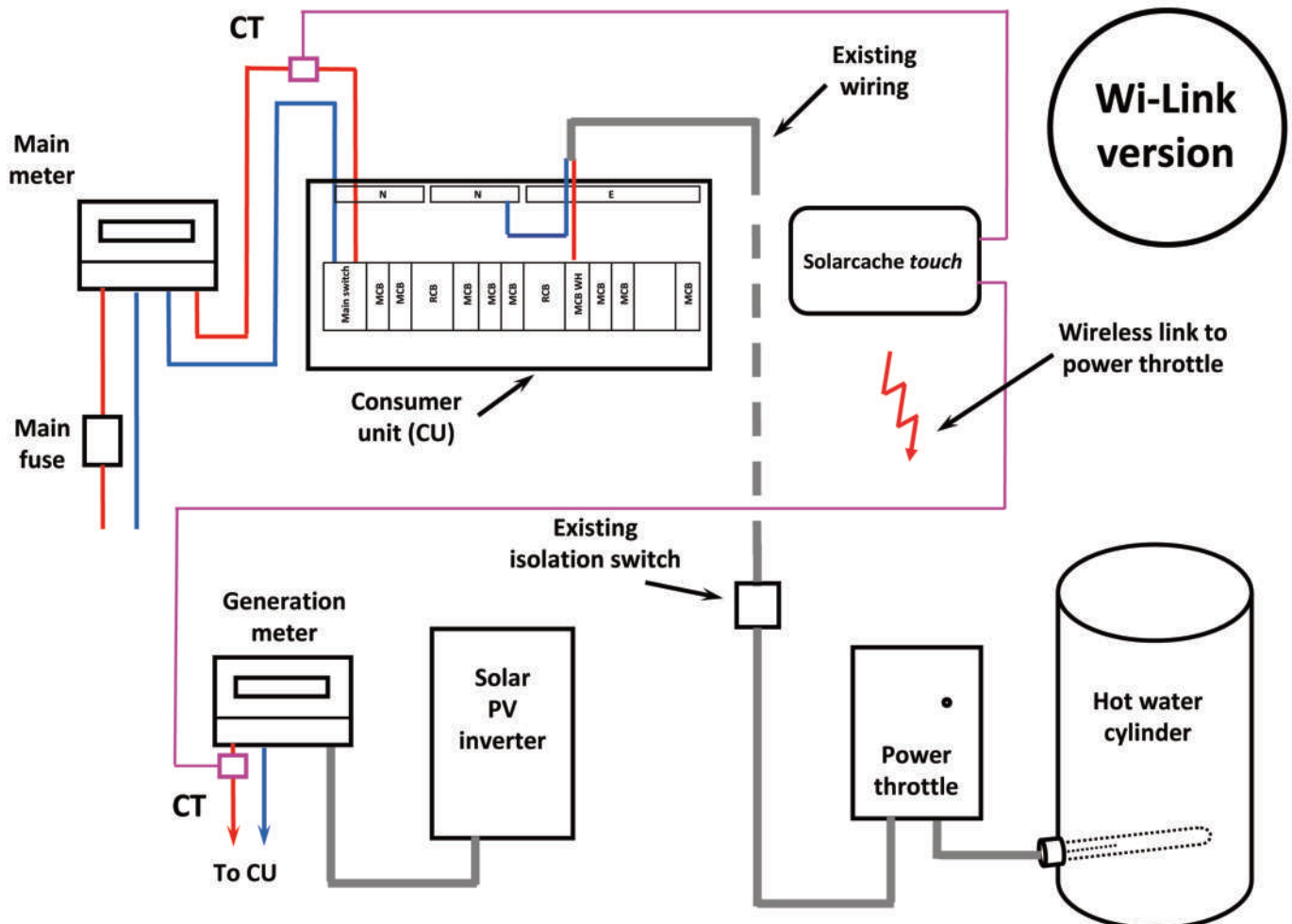
A clip-on sensor (CT) at the electricity meter measures the amount of power flowing, and in which direction. Another sensor measures how much power is being generated by the solar panels.

The data produced is all shown on the touch screen unit; solarcache

touch constantly detects changes in electrical flow to ensure that it is correctly diverted to maximise usage.

The solarcache *touch Duo* power throttle can be mounted near the consumer unit where it intercepts the dedicated circuit to the immersion heater.

The solarcache *touch Wi-Link* power throttle can be mounted next to the immersion heater where it intercepts the flex between the DP isolation switch in the airing cupboard and the immersion heater.



We have a wealth of supporting documents available on our website: www.solarcache.co.uk including Installation and User Guides.

Alternatively call us on **01223 440100** for **technical support**.

solarcache *touch* technical data

Controller	
Screen	5-inch TFT LCD colour, touch sensitive
Manual controls	Graphical buttons on touch-sensitive screen Icons indicate functions Help screens displayed on touching icons
Screen timeout	User settable up to 1 hr, or permanently on
Manual heater functions	Continuous – heater continuously on 1 hr boost – heater on for 1 hour Automatic – heater controlled by SolarCache Off – heater is turned off Timed boost on/off override
Timed heater functions	Up to 7 separate timed boost periods Each boost period can be set to activate on Sun, Mon, Tue, Wed, Thu, Fri, Sat, Mon-Fri, Sat-Sun, or Mon-Sun Each boost period can be directed to the wireless or wired channel, or both
Main screen	Powers shown by bar graphs and numbers (KW) Display of power flow at the main meter in green (export) or red (import) Display of the solar PV generation Display of the surplus power available for use in the house Display of the power being diverted into the currently-connected load
Energy screen 1	Energies shown by bar graphs and numbers (KWh) Display of energy bought from the grid since midnight Display of energy generated by the PV panels since midnight Display of energy consumed in the house since midnight
Energy screen 2	Display of energy diverted to the hot-water tank since midnight Display of energy diverted to a second load since midnight
Resilience to power cut	All settings, historical energy data, and time of day preserved through a power failure, and restored when power re-appears
Historical data	Daily data for the last 28 days and accumulated totals since installation can be displayed on screen: <ul style="list-style-type: none"> • energy bought from the grid • energy generated by PV array • energy used in the house • energy diverted to the wireless channel • energy diverted to the wired channel
Modular system	The controller and the power throttles are separate units, allowing the controller to be placed in a convenient position for the user, and the power throttle(s) to be placed near the load(s)
Installation	Fully automatic sensing of directions and placements of current transformers Auto-calibration of power throttles and loads connected to each channel, taking under 1 minute to complete Improved accuracy through auto-calibration
Channels	Up to two independent channels: one wireless and one wired Any number of wireless power throttles can be connected to the wireless channel Up to five wired power throttles can be connected to the wired channel
Prioritisation	Excess power can be diverted first to either channel, or to both
Response time	Under 1 second
SD card	Data can be recorded every six seconds for later detailed analysis off-line
Wattson display	The wireless version will send data to the Wattson display
Housing	White plastic box matches most decors Size: 161 x 97 x 50 mm external dimensions
Weight	330 g
Power supply	9V AC from plug-in power module
Power diverted	Power is diverted to the load(s) whenever the exported power exceeds 50W
Power throttle	
Power supply	220-240 VAC, 50 Hz
Connection to controller	Wireless version has no physical connection to the controller, and can, for example, be mounted in the airing cupboard near the hot-water cylinder The wired version uses a standard screened (audio) cable for connection
Power	The standard version will control a 3 KW load 4 KW and 6 KW versions are available
Cable connections	Screw terminals for the power cables Push-in connections for signal cable (wired version only)
Cooling fan	No
EMI filters	Yes – on both input and output sides
Housing (3 KW version)	White sheet metal case with ventilation grills Size: 175 x 197 x 65 mm overall external dimensions
Weight (3 KW version)	1430 g

Which **solarcache touch** version should I select?

Choose solarcache *touch* **Duo** when the immersion heater has a dedicated circuit with no other equipment connected, and connection to a Wattson monitor is not required.

Choose solarcache *touch* **Wi-Link** when the immersion heater is not on a dedicated circuit or it has other equipment connected to it, or if a second heater on a different channel is required, or if connection to a Wattson monitor is needed.

Call 01223 440100

Find out more at: info@solarcache.co.uk



solarcache is brought to you by DSM Energy Control Ltd.

DSM Energy Control Ltd is a partnership of Dr Peter Duffett-Smith, radio astronomer and entrepreneur from the University of Cambridge, and Terry Mann, Managing Director of SolarMerge Electrical Ltd, an electrical contractor and solar PV installer.
For more info, please visit solarcache.co.uk