Mixergy®

Installation and servicing instructions

For PV diverter systems

WRAS APPROVED PRODUCT

CIPHE ciphe.org.uk INDUSTRIAL ASSOCIATE

hot water association

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V1 13/11/20

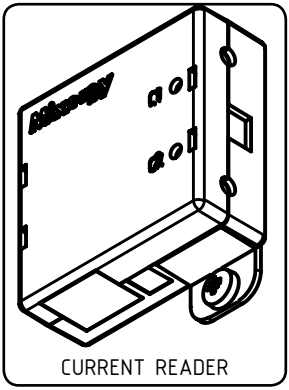
System details

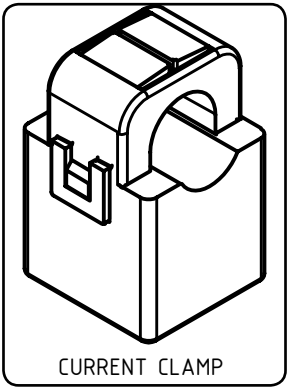
The Mixergy solar diverter is a device which allows your hot water cylinder to redirect and absorb excess solar energy from local PV panels in the form of hot water. This absorbed energy offsets primary energy demand of the hot water system, reducing running costs and lowering the carbon footprint of your water heating.

Thermostat cut-out temperature	80 °C
Immersion heater(s) rating	230-240 V~ 2.7-3.0 kW
Immersion heater(s) specification	EN 60335-2-73
Immersion heater(s) type	356 mm Incoloy/Ti
Modulation range	30W - 3000W
Immersion heater(s) type	100W

Included parts

- Solar diverter (pre-fitted to cylinder)
- Current reader
- Curent clamp
- Mounting hardware (VHB pad, screws x 2, wall plugs x 2)
- 1 m ethernet cable x1, 3m ethernet cable x1


CURRENT READER


CURRENT CLAMP

Contents

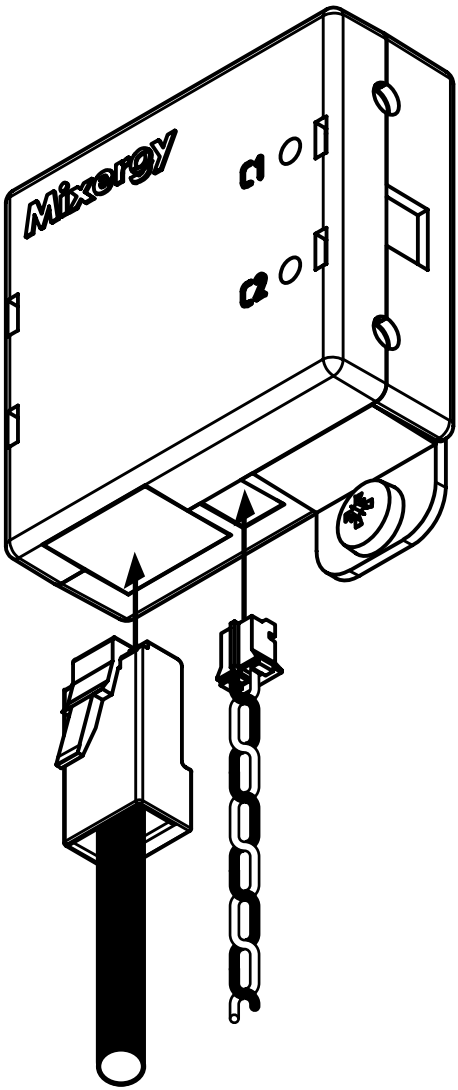
Installing the current reader

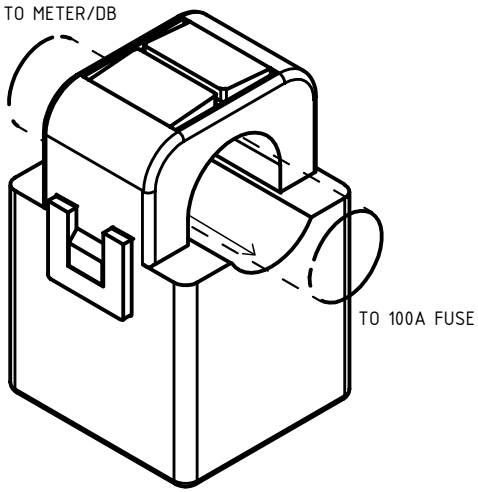
Positioning the current reader

The current reader device must be placed within 200mm of the household's incoming mains supply cabling to allow the current clamp to reach the cabling.

Installation of the current clamp

The current clamp must be attached around the neutral (blue/black) cable on the incoming mains supply with the arrow pointing towards the incoming supply 80/100A main fuse. The current clamp should then be plugged into the current reader as pictured.



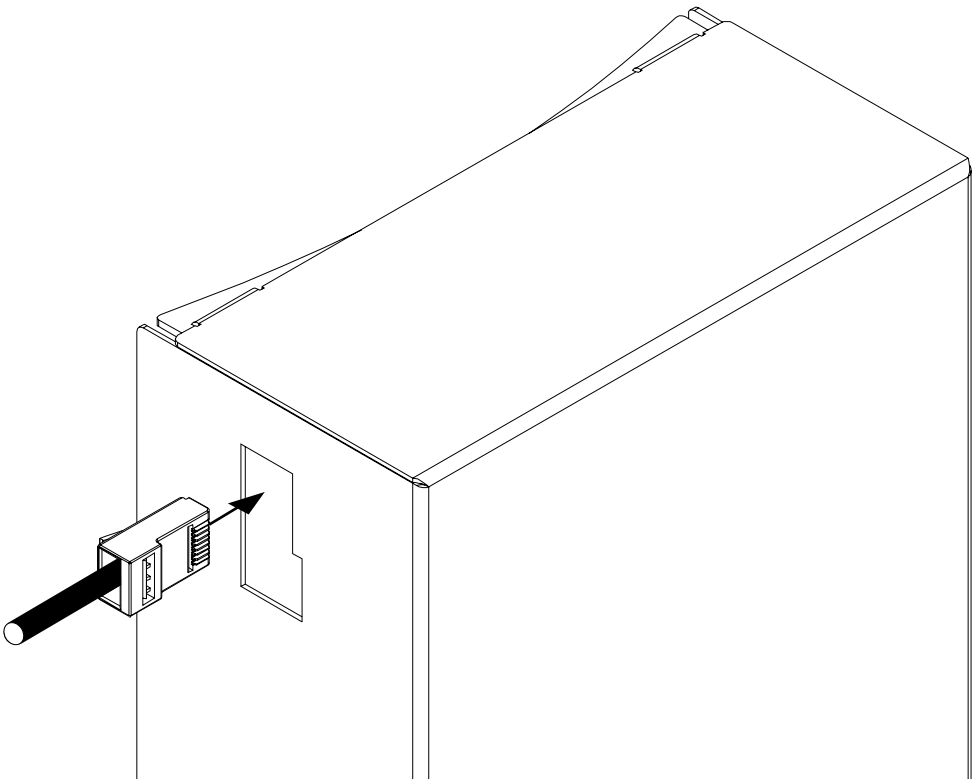


Connecting to the diverter

Connection of the current reader to the diverter

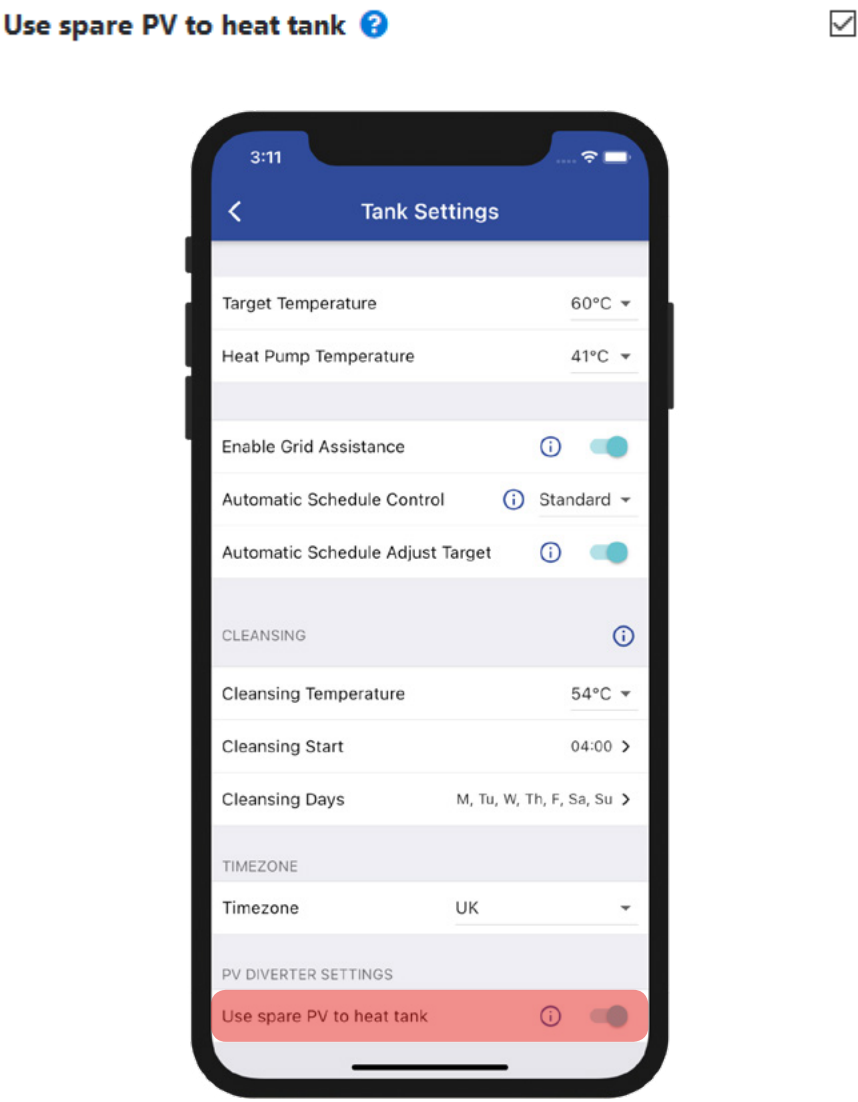
The current reader must be connected to the diverter using either cat5e or cat6 ethernet cable. Ensure that the cable used contains all 4 twisted pairs (8 conductors).

NOTE: While ethernet cable is used for this connection, the communication protocols used are not compatible with standard networking hardware and the connection between the diverter and clamp must be direct (i.e. no network switches or routing equipment is to be fitted in between)



Software setup

To enable diverter functionality, ensure the check-box ‘Use spare PV to heat tank’ is selected. This option can be found in the tank settings page on the phone app/mixcloud.



Troubleshooting

If the cylinder is unable to detect the presence of the current reader, this will be indicated by a rapidly flashing red light on the front of the cylinder controller. If this is the case, double check the wiring between the cylinder controller, diverter and current clamp. If the problem persists please contact Mixergy directly.

If the cylinder switches the immersion on to full power at all times when diverting, this likely indicates that the current clamp has been installed with the arrow pointing in the wrong direction. Double check the arrow direction is facing as described on page 4. If the problem persists please contact Mixergy directly.

Spare parts

Do not attempt to repair or replace any parts of the Mixergy diverter unless you are a trained operative. If you suspect a fault or a replacement part is needed, please contact Mixergy directly.

To determine the correct parts for your system, please ensure you have your cylinder MX number which can be found on the nameplate located at the front of the cylinder.

Part description	Part no.
Enclosure cover	MME0074
Diverter PCB	MAS0056
Current reader	MAS0061
High-limit stat	GTLHR070