

# Viessmann DHW Status Detection

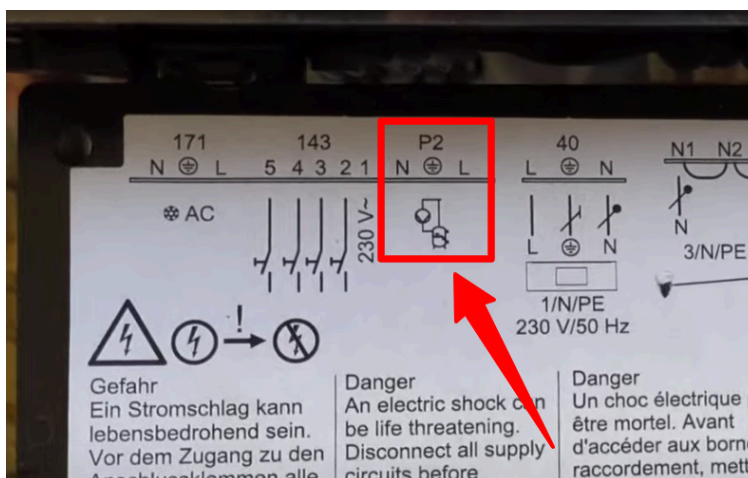
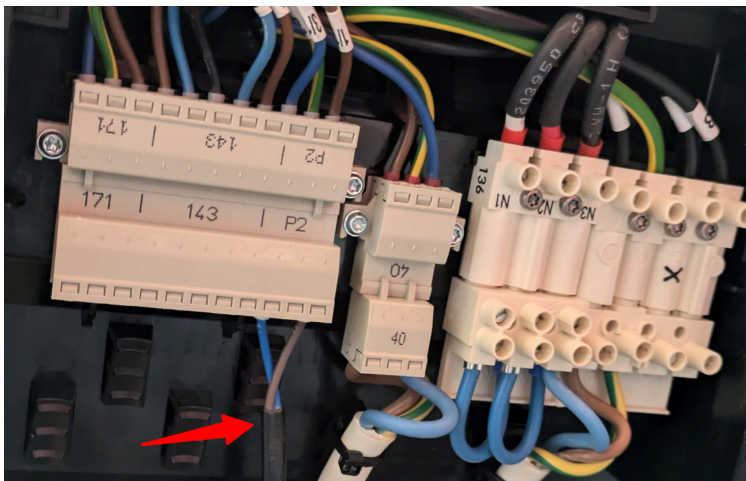
Viessmann 150A/151A heat pumps have an internal DC driven 4-way diverter valve. This means we can't detect the diverter valve in the usual way by detecting a 240V signal controlling a traditional 3-way diverter valve.

For Viessmann heat pumps it's possible to detect the DHW status by configuring the DHW circulation pump output to turn on when the heat pump is in DHW mode, then connect the OpenEnergyMonitor 240V DHW status to the DHW circulation pump output.

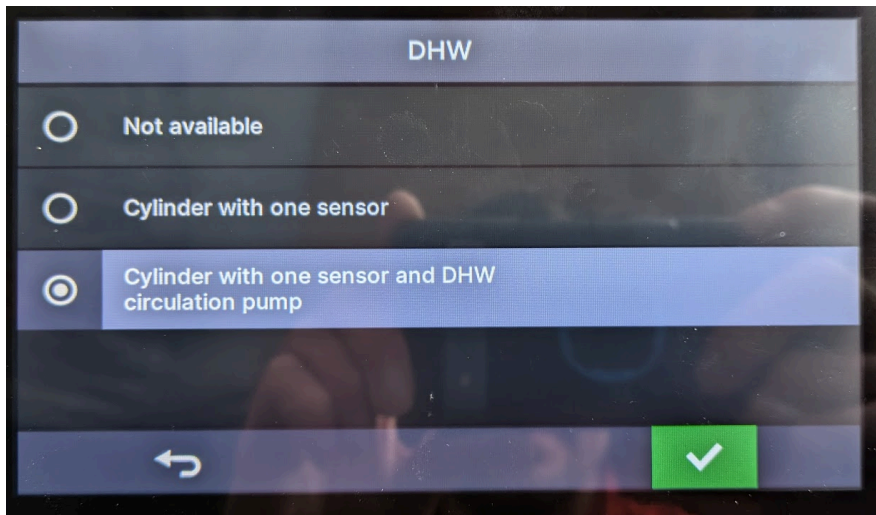
<https://shop.openenergymonitor.com/dhw-status-sensor-retrofit-for-emonpi2-base-station/>

**Note: This method only works if DHW circulation pump is not already being used by a DHW circulation pump.**

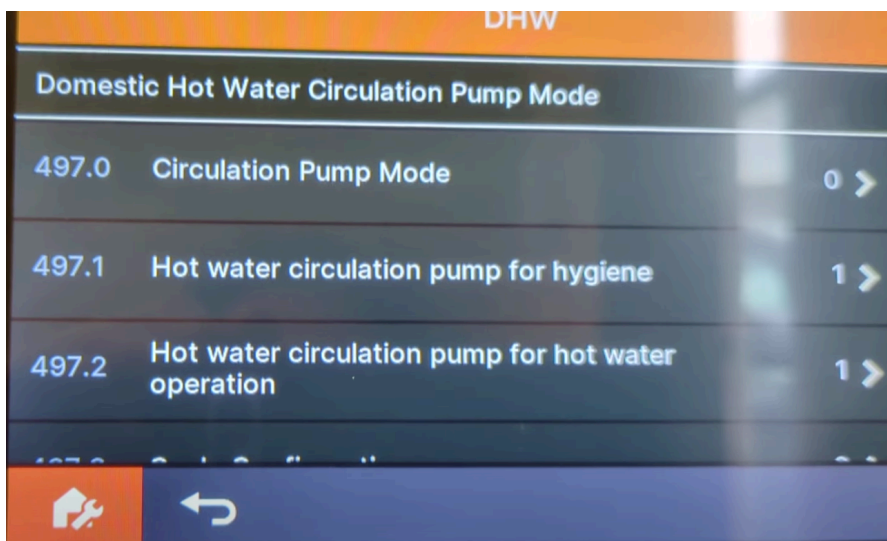
1. Connect the DHW 240V status sensor to port P2 in the 240V connection box located on the underside of the 150A



2. In the Viessmann commissioning settings enable the DHW circulation pump output:



3. Enable setting 497.1 "Hot water circulation pump for hot water operation" in service mode settings: Setting > Service (password "viservice")> System Configuration > DHW:



4. Clear all DHW circulation pump schedules under "Time program for DHW circulation" found in the user settings

The circulation pump output should now be active (240V present on P2) when the heat pump is actively heating DHW.