

Household Appliance component

With manual / automatic switch and power monitoring

Functionality

There always must be checked if the household device turns on again after disconnecting the power supply. If this is not the case this component may not be used.

This function component is always turned on while operating.

When the household device is started, PowerDog® checks, if there is surplus or if it is the latest turn on time. If this is not the case, the PowerDog® deactivated the remote plug, and waits until one of the start conditions is.

Attention!!!

The remote plugs need to already be integrated at „Remote IO“. A „Export counter“ is required that measures the PV-surplus.

- In de device configuration go on „Counters“. Create a new counter type with the green plus.
- Select „Usage remote plug“.



- Enter a name e.g.: „Washing machine“.
- At „Max“ enter the maximum consumption of the remote plug.

- At „Remote Plug“ select the plug you are using for e.g.: the washing machine. Confirm with „OK“.
- Activate, if the counter should be visible on the display or not (max. 4 visible). If the maximum is reached, it is not possible to confirm with „OK“.
- Go to the device configuration to „Controls“. Create a new control function with the green plus.
- At „Special functions“ create the „Household Appliance“ function component.



- At „Name“ choose the device you want to trigger e.g.: Washing machine.
- At „Required Power“ enter the power of e.g.: the washing machine

The power is stated on the type label of every device. This value need to be greater than 1600W for the turn on value.

- At „Select grid feed counter“ select e.g.: Export (arithmetic).

The counter is selected that measures the PV- Surplus.

- At „Start delay“ enter e.g.: 1 Minute.

That means the start delay gives the start order of the different device that are connected to the PowerDog®. 1 minute, 1600 watts surplus – Washing machine on. e.g.:

Washing machine.....1min

Dishwasher2min

- At „Longest program“ select the the longest possible runtime of e.g.: the washing machine (stated in the manual of the device).

When there are multiple e.g.: washes per day, a time extension of the program to e.g.: 700 minutes is required to keep the remote plug on continuous operation, so that e.g.: Washing machine is still usable after the first wash.

Instead of the time extension one can also trigger the remote plug manually via the „Hand/Automatic function“ on the PowerDog.

- At „Latest Turnon“ enter e.g.: 14:00 o'clock, when the e.g.: the washing machine has to start.

The washing machine start at 14:00 o'clock, because not PV-surplus is available.

- At „Interface“ select „Internal Memory“. Confirm with „OK“.

The „Internal Memory“ is used to integrate a „Hand/Automatic switch“ later.

- At „Feedback counter“ select e.g.: washing machine (remotecounter). Press "OK" until you are in the "Device Configuration", then go to "Save".

Configuration of the Auto/OFF/ON switch



- Go to „Controls“ in the device configuration“. Create a new switch with the green plus.
- Go to „Auto/OFF/ON switch“.
- At „Name“ enter e.g.: washing machine.
- At „Sensor/Zähler“ select e.g.: washing machine (Appliance)[DO_VIR- TUAL].
- At „Interface“ select „From RemoteIO“ and then the remote plug that you have configured for the washing machine e.g.: remote plug->DO: circle+. Confirm with „OK“.

Go to „Custom View“ in the „Device configuration“

- Create a new „Sensor/Counter/Control“ with the green plus.

- Select e.g.: Washing machine (Manual/AutoSwitch) at „Sensor/Counter“. Confirm with „OK“.
- Place the widget on the display and press „OK“. Go to the device configuration and press „Save“.

You want to monitor the consumption of e.g.: the washing machine in custom view.



- Press on the symbol under the green plus.
- Now you have got the possibility to select a picture.
- Place this picture on the position of e.g.: the switch. Go to the device configuration and press „Save“.

- Go to „Custom View“ in the device configuration.
- Create a new „Sensor/Counter/Control“ with the green plus.
- Select e.g.: washing machine(remote counter) at „Sensor/Counter“.
- Select e.g.. regular at „Icon type“. Confirm with „OK“.
- Place the icon on the display and press „OK“. Afterwards go to the device configuration and press „Save“.

If you want a logo of the device you want to trigger with the „Auto/OFF/ON switch“, then you need to do as shown.

- Go to „Custom View“ in the device configuration.