# Smart Energy Logics and Devices

The Solar-Log™ specifically controls many different electrical appliances such as pumps, heating elements, air-conditioning systems and charging devices. With the help of Smart Energy Logics, various conditions can be defined for when an additional load is to be activated, for example at a certain surplus level. Different devices can be used to physically switch on the appliances. Depending on the specific purpose, the Solar-Log™ potential-free internal relay, a Smart Plug, the Smart Relay Box or the Smart Relay Station V2 can be used. An appliance can be controlled via the internal relay of the Solar-Log Base. The relay can switch devices with a maximum voltage of 24 volts at a current up to 2 amps. The Smart Relay Box provides eight additional relays for the Solar-Log™ to use. Up to three appliances can be switched on and off with the Smart Relay Station V2; additionally, the Relay Station V2 records the consumption via an internal meter.

Solar-Log™ Smart Relay Box

- Equipped with 8 potential-free contacts, e.g. for heat pumps (SG Ready).
- Connected to the Solar-Log™ via RS485
- Well-suited in combination with load relays to control motors, pumps and ventilation and air-conditioning systems.
- Free RS485 connection required

Appliances with line voltage and maximum power consumption of 16 amps can be directly switched with an external power relay, the Solar-Log™ Smart Relay Station V2. In addition to the switching, this also records the consumption of the appliance that is switched on. For this reason, the Solar-Log™ Smart Relay Station V2 can be used as a sub-consumer without any additional hardware.
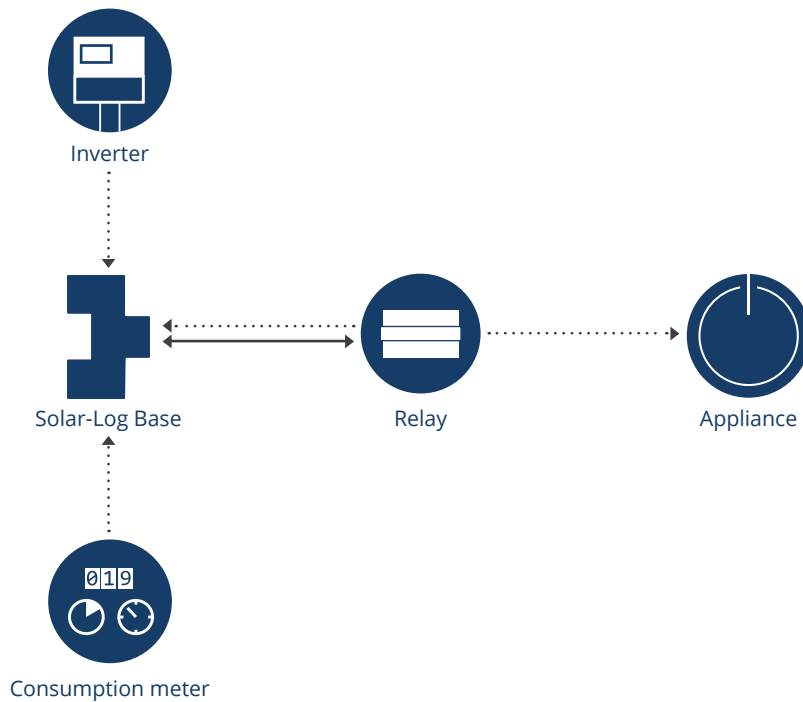
Solar-Log™ Smart Relay Station V2

- Equipped with 3 relays to directly switch loads up to 16A/230V.
- Receives a response with the consumption values from each individual relay.
- Connected to the Solar-Log™ via Ethernet