

GB

6LE007547A

## XEM250 SG Ready interface for flow

### Safety instructions

Failure to comply with these instructions may result in damage to the device, fire, or other hazards.

These instructions are an integral component of the product and must be retained by the end user.



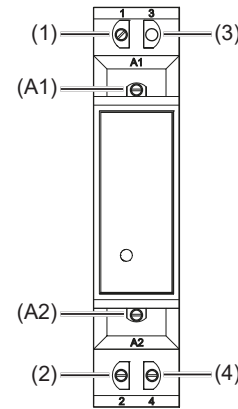
#### CAUTION!

Before installing the SG Ready interface, ensure that the distribution network operator's specifications are being met (e.g. if the heat pump is registered as interruptible consumer unit with a reduced electricity tariff).

- i** Hot water heat pumps must have a controller that makes it possible to increase the hot water set temperature via automatic activation for the purpose of heat storage.
- i** Heating heat pumps with an SG Ready label must have a controller that covers 4 operating status.

SG Ready relay switching	Heating heat pumps operating status
Relay 1 = On Relay 2 = Off	<b>Operating status 1</b> (locked operation): This operating status is backward compatible with the EVU lock, which is often activated at set times, and comprises a maximum of 2 hours "hard" locking.
Relay 1 = Off Relay 2 = Off	<b>Operating status 2</b> (standard operation): In this switching mode, the heat pump runs in energy-efficient normal operation and fills some heat into the heat storage for the maximum 2-hour EVU lock.
Relay 1 = Off Relay 2 = On	<b>Operating status 3</b> (photovoltaic surplus operation): In this operating status, the heat pump runs higher within the controller for room heating and hot water preparation. It is not a definite start command, but a switch-on recommendation according to today's increase.
Relay 1 = On Relay 2 = On	<b>Operating status 4</b> (operation for curtailment): This is a definite start command if this is possible as part of the regular settings. For this operating status, it must be possible to set different control models on the controller for various tariff and use models: Variant 1: The heat pump (compressor) is actively switched on. Variant 2: The heat pump (compressor and additional electric heater) is actively switched on, optional: higher temperature in the heat storage
optional	Optionally, the room temperature can be used as a benchmark for controlling the system temperature (input or return temperature). Locking the heat pump with a room thermostat that depends on room temperature is insufficient.

### Design and layout of the device



- (1) Input change-over contact
- (2) Output NO contact
- (3) empty
- (4) Output NC contact
- (A1) Inductor contact +
- (A2) Inductor contact -

### Function

Heat pumps and any other devices that are required can be integrated in intelligent electricity networks through the SG Ready interface. The heat pump and energy storage system communicate through 2 additional SG Ready relays in the main connection area. The energy management controller thus controls the heat pump with preset limits.

#### Correct use

- Integration of heat pumps by means of the Energy Management Controller
- Only suitable for indoor applications.
- Mounting on DIN rail according to DIN EN 60715

#### Scope of delivery

- 2 Hager SG Ready relay EN145

### Information for electricians

#### Installation and electrical connection



#### DANGER!

Touching live parts can result in an electric shock!

An electric shock can be lethal!

Disconnect the connecting cables before working on the device and cover all live parts in the area!

### Installing the device

- Mount device onto DIN rail in accordance with DIN EN 60715.

### Connecting the device

- Disconnect the SG Ready control cable from the left modular plug-in terminals in the main connection area and remove the modular plug-in terminals.
- Snap on the two SG Ready relays EN145 of the SG Ready expansion set XEM250 in place of the removed modular plug-in terminals.

**i** A wiring diagram is to be seen in the installation instructions of the energy storage system.

- Connect the blue strands of the battery controller cable to the contacts (A2) of both relays.

- Connect the yellow wire of the battery controller cable to the contact (A1) of relay 1.

- Connect the green wire of the battery controller cable to the contact (A1) of relay 2.

**i** Most heat pumps require one normally open contact. The normally open contact is therefore connected to terminals 1 and 2 of the two SG Ready relays.

- Connect the heat pump controller cable to the contacts of the SG Ready relays (see heat pump installation instruction).



#### Practical tip

Alternatively, one binary input of the Hager radio input, 2gang TRB302B, can be connected to each of the normally open contacts of the SG Ready relays to send the SG Ready signals to the heat pump. The heat pump can be fitted with 2 radio switch actuators with potential-free contact TRM694G whose contacts follow the SG Ready relays. The radio components should not be installed outside the metal cabinets in separate housings due to the radio signal transmission.

### Appendix

#### Warranty

We reserve the right to realise technical and formal changes to the product in the interest of technical progress.

Our products are under guarantee within the scope of the statutory provisions.

If you have a warranty claim, please contact the point of sale.