





Error Messages, Causes and Possible Solutions

| Message | Cause | Explanation |
|---------|--|--|
| Er 62 | The collector temperature was much higher than the storage cylinder temperature. ($T_{kol} > T_{sp} + 60K$) | <div style="border: 1px solid black; padding: 5px; display: inline-block;">  <p>Change to the operating mode "OFF" by shortly pressing the pushbutton. The error message is acknowledged.</p> </div> <p>The volume flow in the solar circuit is insufficient:</p> <ul style="list-style-type: none"> "No Flow" "Flow Too Low" |
| Er 63 | Between 1:00 and 4:00 a.m.: $T_{kol} > 45\text{ °C}$ | <div style="border: 1px solid black; padding: 5px; display: inline-block;">  <p>Change to the operating mode "OFF" by shortly pressing the pushbutton. The error message is acknowledged.</p> </div> <ul style="list-style-type: none"> Wrong time set: check/adjust E1 and E2 changed: check the sensors and change their positions Check valve defective: replace it |
| Er 71 | E1 delivers undefined values. | The output A1 (solar pump) is switched off. |
| Er 79 | E2 delivers undefined values. | The error message cannot be acknowledged, the display only shuts off after the error has been eliminated. (In order to do this, interrupt the power supply to the controller during approx. 20 seconds) |
| Er 72 | E3 delivers undefined values. | <ul style="list-style-type: none"> "Temperature sensor" |
| Er 64 | E5 has not delivered any measured value for 30 seconds | <p>The output A1 (solar pump) is switched off.</p> <p>The error message cannot be acknowledged, the display only shuts off after the error has been eliminated. (In order to do this, interrupt the power supply to the controller during approx. 20 seconds)</p> <ul style="list-style-type: none"> "Volume flow sensor" "No Flow" "Flow Too Low" |
| Er 81 | EEPROM | <p>All outputs are switched off.</p> <p>Send the controller to the manufacturer; please enclose a list with the system parameters you have set.</p> |
| Er 198 | The volume flow cannot be reached. (The nominal value is too high). | <div style="border: 1px solid black; padding: 5px; display: inline-block;">  <p>Change to the operating mode "OFF" by shortly pressing the pushbutton. The error message is acknowledged.</p> </div> <p>"Flow Too Low"</p> |
| Er 199 | The volume flow cannot be reached. (The nominal value is too low). | <div style="border: 1px solid black; padding: 5px; display: inline-block;">  <p>Change to the operating mode "OFF" by shortly pressing the pushbutton. The error message is acknowledged.</p> </div> <p>The minimum pump capacity of 30 % is still too high for the parameterised nominal value. Switch to a lower pump level or increase the nominal value.</p> |

"No Flow"

- Look through the inspection window of the volume flow sensor to check whether the turbine wheel is turning.

YES: The controller does not receive any signals from the sensor
see "**Volume Flow Sensor**"

NO: No Flow:

- Check whether the stop valve is closed.
- Check whether the pump is running in manual mode.



Danger!

Risk to life and limb due to electrocution! Unplug the mains plug before working on the electrical components of the controller! Any work on the electrical components must be carried out only by a trained electrician.

- Check the sensor lines for damage and wrong terminals.
- Test the pump without the controller. If the pump works (the turbine wheel is moving), the controller is defective. Otherwise, the pump has to be replaced.

"Flow Too Low"

- Check all stop valves. Maybe not all stop valves are **completely** open and thus hinder the circulation.
- Choose a higher pump level.
- Check the nominal value of the volume flow parameter (P96) and define a smaller value.

"Volume Flow Sensor"

- Look through the inspection window of the volume flow sensor to check whether the turbine wheel is turning.

NO: see "**No Flow**"

YES: The controller does not receive any signals from the sensor.



Danger!

Risk to life and limb due to electrocution! Unplug the mains plug before working on the electrical components of the controller!

- Check the sensor lines for damage and wrong terminals.
- If you are not able to detect a defect, please change the volume flow sensor.

"Temperature Sensor"



Danger!

Risk to life and limb due to electrocution! Unplug the mains plug before working on the electrical components of the controller!

- Check the sensor lines for damage and wrong terminals.
- Block the sensor and measure the temperature-dependent resistance (see Technical Data: Pt1000).