

Error code output

If the heater is fitted with a combination timer, an error code output will appear on the display of the timer after a fault occurs.

NOTE

The error code is output if the heater is fitted with a controlelement after an error has occurred by the switch-on indicator/error code indicator flashing. After 5 seconds of fast flashing, the error code will be output by a sequence of long flash pulses, the number of flashes is shown in the table below (for example F04 – 4 long flash pulses).

| Error code | Error (group) | Additional information during PC diagnostic | Remedy |
|-------------------|-----------------------------|--|---|
| F 00 | Control unit error | <p>01 Control unit error</p> <p>81 EOL checksum error</p> <p>11 Incorrectly coded control unit or incorrect heater (fuel type) installed (the heater will not work if this error occurs)</p> <p>91 Neutrally coded or disabled control unit (the heater will not work if this error occurs)</p> <p>92 Maintain command failed (the heater will not work if this error occurs)</p> <p>18 Customer bus defective</p> | Replace control unit |
| F 01 | No start | <p>02 Even after the restart, no flame has formed</p> <p>82 No start in test</p> | <p>Check fuel supply (tank empty, lines blocked)</p> <p>Clean burner insert,</p> <p>Petrol: Replace flame sensor</p> <p>Diesel: Replace overheating sensor / control unit</p> |
| F 02 | Flame failure | <p>03 The flame has gone out during operation and has not reformed after a restart attempt</p> <p>83 The flame has gone out during a heating cycle more than FAZ times (EEPROM)</p> | <p>Check fuel supply (tank empty, lines blocked)</p> <p>Clean burner insert,</p> <p>Petrol: Replace flame sensor</p> <p>Diesel: Replace overheating sensor / control unit</p> |
| F 03 | Undervoltage or overvoltage | <p>84 The voltage was less than 10.5 V or 21 V for longer than 20 seconds</p> <p>04 The voltage was more than 16 V or 32 V for longer than 6 seconds</p> | Charge battery |

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|-------------------|---|--|--|
| F 04 | Premature flame recognition | 05 A flame was detected before combustion had started | Diesel: Replace overheating sensor / control unit Petrol: Replace flame sensor |
| F 05 | Flame sensor interrupt or short circuit (only petrol heater) | 1A Flame sensor circuit The switched cable of the element has a short circuit to earth 9A Flame sensor circuit Break or short circuit to +Ub | Replace flame sensor Replace flame sensor |
| F 06 | External temperature sensor break or short circuit | 14 Temperature sensor circuit Short circuit to earth 94 Temperature sensor circuit break or short circuit to +Ub | Check cables / replace temperature sensor Check cables and terminating resistor / replace temperature sensor |
| F 07 | Metering pump interrupt or short circuit | 88 Break or short circuit to +Ub 08 Short circuit to earth | Check cables / replace metering pump Check cables / replace metering pump |
| F 08 | Drive unit (combustion and hot air blower) break or short circuit | 89 Break or short circuit to +Ub 09 The switched drive unit cable (combustion and hot air blower) has a short circuit to earth or the drive unit is overloaded 15 Burner motor block guard has tripped 95 Burner motor blocking detection has tripped | Replace drive unit (combustion and hot air blower) Eliminate the cause of the blockage / difficulty in movement Replace drive unit (combustion and hot air blower) |
| F 09 | Glow plug interrupt or short-circuit | 8A Glow plug: Break or short circuit to +Ub 19 Glow circuit The switched cable of the element has a short circuit to earth | Replace glow plug Replace glow plug |

| Error code | Error (group) | Additional information during PC diagnostic | Remedy | | | | | | |
|-------------------------|---|---|---|---------------|-------------------|-------------------------|-------------------|---------------------|-------------------|
| F 10 | Overheating | <p>06 The overheating fault lock-out has tripped (heater overheated)</p> <p>17 Incorrect application or illegal insulation (ÜHS gradient too high)</p> | <p>Find and remove the cause of the overheating</p> <p style="text-align: center;">NOTE</p> <p>If no other cause can be found for the overheating, the pressure losses caused by the hot air distribution (too many resistance points) are too high or a hot air filter is soiled</p> | | | | | | |
| F 11 | Overheating sensor interrupt or short circuit | <p>AB Overheating sensor circuit break or short circuit to +Ub</p> <p>1B Overheating sensor circuit. The switched cable of the element has a short circuit to earth</p> | <p>Replace overheating sensor</p> <p>Replace overheating sensor</p> | | | | | | |
| F 12 | Heater fault lock-out | <p>07 The heater fault lock-out has been activated</p> | <p>Remove the fuse and then refit it</p> <p style="text-align: center;">NOTE</p> <p>The following error has occurred several times:</p> <table style="width: 100%; border: none;"> <tr> <td style="width: 70%;">Fault counter</td> <td style="width: 30%;">more than 3 times</td> </tr> <tr> <td>Incorrect start counter</td> <td>more than 9 times</td> </tr> <tr> <td>Overheating counter</td> <td>more than 3 times</td> </tr> </table> | Fault counter | more than 3 times | Incorrect start counter | more than 9 times | Overheating counter | more than 3 times |
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| Incorrect start counter | more than 9 times | | | | | | | | |
| Overheating counter | more than 3 times | | | | | | | | |
| F 14 | Overheating sensor incorrect position | <p>97 Incorrect position of overheating sensor (ÜHS gradient too low)</p> | <p>Position the overheating sensor correctly</p> | | | | | | |
| F 15 | Nominal sensor break | <p>9B Nominal value potentiometer circuit break or short circuit to +Ub</p> | <p>Check cables / replace control element</p> | | | | | | |