Kemro K2

KeEnergy.Complete
Visualization for heat generating systems
Alarms V 1.0

KEBA

Automation by innovation.

Table of contents

1. Description

The chapter Alarms contains the complete alarm texts (long texts) for each alarm number, which are displayed in the alarm mask.

The alarm texts contain placeholders for parameters that are displayed in the alarm text.

The placeholders have the following meaning:

%n: Instance number of the functional unit, starting with 1.

%1: 1st parameter, usually name of the functional unit (parameter param.name)

%2: 2nd parameter, usually the ID of the detailed information that provides additional information on the cause of the error.

%3: 3rd parameter

%4: 4th parameter

Example:

Alarm ID 1008:

Short text: Temperature sensor flow

Long text: Heat pump %n %1: Flow temperature sensor defect (%2)

Displayed text on the alarm mask: Heat pump 1 Type_XY: Temperature sensor flow defect (54)

2. Alarm messages

5: Internal Error

Internal Error: %1 (%2, %3, %4)

Quittable: -

Prevents start: x

Reason: Internal Error.

Impact: An internal Error occurred.

9: Mapping Error

Mapping Error: %1 (%2, %3)

Quittable: -

Prevents start: x

Reason: The terminal combination of the object isn't valid.

Impact: The Application isn't booting.

Elimination: Map a valid terminal combination.

11: Recipe Error

Recipe file %1 couldn't be loaded

Quittable: x

Prevents start: x

Reason: Recipe file couldn't be loaded.

Impact: System is deactivated.

Elimination: Load parameter backup or default parameters.

12: Operational data lost

Operational data file %1 couldn't be loaded

Quittable: x

Prevents start: -

Reason: Recipe file couldn't be loaded.

Impact: Operational data set to initial values.

13: Recipe Error

Recipe file %1 couldn't be saved (%2).

Quittable: x

Prevents start: -

Reason: Recipe file couldn't be saved.

Impact: Recipe is not stored.

Elimination: Run diagnosis with error state.

15: Invalid parameter

%1: invalid parameter %2 (%3)

Quittable: x

Prevents start: x

Reason: The parameter of the object is invalid.

Impact: Impact: If the error occurs in start-up, the object won't be generated. If the error occurs during operation by user input, the input is rejected.

Elimination: If the error occurs during start-up, the recipe file must be checked.

16: No licence

%1: No licence for option %2

Quittable: -

Prevents start: -

Reason: No valid licence for selected option found.

Impact: Selected option is inactive.

Elimination: Check settings or acquire valid licence.

21: Invalid station ID

Invalid station ID

Quittable: x

Prevents start: x

Reason: The station ID has not been set yet.

Impact: The communication bus is not working.

Elimination: Reboot the control and set the station ID using the Boot-Visualization.

22: Communication error

Firing device %n (adr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication to the specified module is interrupted.

Impact: Functional units operated on the module are not functional.

Elimination: Check the bus connection, bus address and power supply of the affected IO module.

23: Communication error

Heating circuit device %n (adr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication to the specified module is interrupted.

Impact: Functional units operated on the module are not functional.

Elimination: Check the bus connection, bus address and power supply of the affected IO module.

24: Communication error

Digital Remote Control %n %1 (adr.: %2): Communication error

Quittable: -

Prevents start: -

Reason: Communication to the digital remote control is interrupted.

Impact: No further input can be made via the digital remote control.

Elimination: Check the bus connection, bus address and power supply of the affected digital remote control.

25: Communication error

Touch remote %n (Adr.: %1): Communication error

Quittable: -

Prevents start: -

Reason: Communication to the TFB has been interrupted.

Impact: No inputs can be made via the TFB.

Elimination: Check the bus connection, bus address and power supply of the affected TFB.

26: Communication error

Heatpump device %n (adr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address, power supply.

27: Overtemperature

Heatpump device %n (adr.: %1): Overtemperature

Quittable: -

Prevents start: x

Reason: Maximum temperature for I/O module exceeded.

Impact: Functional units based on this module are not operating.

Elimination: Wait cooldown time, check fan.

28: Emergency stop compressor

Heatpump device %n (adr.: %1): Emergency stop compressor (%2)

Quittable: -

Prevents start: x

Reason: Criteria for emergency stop of compressor fulfilled.

Impact: Functional units based on this module are not operating.

Elimination: Check heat pump unit, sensors and actuators.

29: Address conflict

Touch remote %n (Adr.: %1): Address conflict

Quittable: -

Prevents start: -

Reason: There are 2 or more TFBs with the same address.

Impact: The TFB cannot make any inputs.

Elimination: The addresses must be checked in the Boot-Visualization.

30: Exit Setup Mode

%1: Exit Setup Mode (%2)

Quittable: x

Prevents start: -

Reason: Manual operation of the object is terminated due to an error.

Impact: The object switches to the normal operating state.

Elimination: The message must be acknowledged.

31: Communication error

Wireless Remote Control %n %1 (adr.: %2): Communication error

Quittable: -

Prevents start: -

Reason: Communication to the wireless remote control is interrupted.

Impact: No further input can be made via the wireless remote control.

Elimination: Check ZigBee connection, bus address and battery of affected wireless remote control.

32: Communication error

VFD ATV %n (adr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address, power supply.

33: ATV malfunction

ATV %n (adr.: %1): Malfunction (code: %2)

Quittable: -

Prevents start: x

Reason: I/O module has malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check wiring, power supply and bus connection.

34: Communication error

VFD Powerp %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address, power supply.

35: Powerp malfunction

Powerp %n (adr.: %1): Malfunction (code: %2)

Quittable: -

Prevents start: x

Reason: I/O module has malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check wiring, power supply and bus connection.

36: Communication error

HRV %n (adr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address, power supply.

37: HRV malfunction

HRV%n (adr.: %1): Malfunction (code: %2)

Quittable: -

Prevents start: x

Reason: I/O module has malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check HRV error code.

38: HRV filter

HRV %n (adr.: %1): Filter has to be replaced.

Quittable: x

Prevents start: -

Reason: New filter is needed.

Elimination: Replace filter and quit.

39: Communication error

VFD EV2 %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address and power supply.

40: EV2 malfunction

EV2 %n (addr.: %1): Malfunction (code: %2)

Quittable: -

Prevents start: x

Reason: I/O module has malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check wiring, power supply and bus connection.

41: Communication error

Extern control communication error.

Quittable: x

Prevents start: -

Reason: Communication breakdown to control.

Impact: Function that are controlled via external controller get deactivated.

Elimination: Check connection, address and power supply.

42: Communication error

VFD ED3 %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address and power supply.

43: ED3 malfunction

ED3 %n (addr.: %1): Malfunction (code: %2)

Quittable: -

Prevents start: x

Reason: I/O module has malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check wiring, power supply and bus connection.

44: Communication error

Virtual module %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address and power supply.

45: Communication error

Alpha2 %n (addr.: %1): Communication error single room controller

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus adress and power supply.

46: Communication error

VFD ECBlue %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus adress and power supply.

47: Communication error

VFD EbmPapst %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus adress and power supply.

48: AO mode mismatch

Module %1/%2: AO %3 mode mismatch

Quittable: -

Prevents start: -

Reason: Mode of analog output is set wrong because of multiple IO assignment with different parametrization.

Impact: Analog output is operated with parametrization of last output assignment.

Elimination: Use same parametrization in all function assigned to analog output.

49: Communication error

VFD OneEmerson %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address and power supply.

100: Sensor outdoor temperature

Sensor outdoor temperature broken (%1)

Quittable: -

Prevents start: -

Reason: The outside temperature sensor is faulty.

Impact: The outside temperature is not taken into account when calculating the flow temperature of the heating circuits.

Elimination: The outside temperature sensor and its wiring must be checked.

101: Low pressure

Heat side has low pressure.

Quittable: -

Prevents start: -

Reason: Low pressure on heat side.

Elimination: Check heating side for leakage and pumps.

102: Low heat side pressure

Heat side pressure below limitation

Quittable: -

Prevents start: -

Reason: Pressure is below limitation.

Impact: Warning is triggered, heat sources stay operational.

Elimination: Warning is resetted, when pressure rises above parameterized limit.

103: Low heat side pressure

Heat side pressure below limitation

Quittable: -

Prevents start: x

Reason: Pressure is below limitation.

Impact: Heat sources not operational.

Elimination: Heat sources are operational again, when pressure rises above parameterized limit.

104: High heat side pressure

Heat side maximum pressure exceeded

Quittable: -

Prevents start: -

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Reason: Pressure is above limitation.

Impact: Warning is triggered, heat sources stay operational.

Elimination: Warning is resetted, when pressure drops below parameterized limit.

105: Sensor flow temperature

Sensor flow temperature of heating system broken (%1)

Quittable: -

Prevents start: -

Reason: The flow temperature sensor of the heating system is faulty.

Impact: If possible, the boiler temperature or the temperature of the external heat source is used as the flow temperature.

Elimination: The flow temperature sensor and its wiring must be checked.

106: Frost protection active

Frost protection active

Quittable: -

Prevents start: -

Reason: The frost protection monitoring has detected a lowering of the flow temperature of the heating system below the frost protection limit.

Impact: A heat request is made.

107: Frost protection alarm

Frost protection alarm

Quittable: x

Prevents start: -

Reason: The frost protection monitoring has detected a lowering of the flow temperature of the heating system below the frost protection alarm limit.

Impact: The system runs danger of being damaged by frost.

Elimination: -

108: Networkpump

Networkpump %n %1 broken (%2)

Quittable: -

Prevents start: x

Reason: The network pump reports an error.

Impact: The network pump is not ready for operation.

Elimination: The network pump or its wiring must be checked.

109: Networkpump deactivated

Networkpump %n %1: Deactivated

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Incorrect parameterization detected during startup.

<u>Impact</u>: Networkpump is deactivated.

<u>Elimination</u>: Check paraterization and restart system.

110: Switch valve deactivated

Switch valve %n %1: Deactivated

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Incorrect parameterization detected during startup.

<u>Impact</u>: Switch valve is deactivated.

<u>Elimination</u>: Check paraterization and restart system.

111: Batteries almost empty

Wireless Remote Control %n (adr.: %1): Batteries almost empty

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Battery of affected radio remote control is almost empty.

<u>Impact</u>: The radio remote control concerned will be switched off soon.

<u>Elimination</u>: Replace battery of affected radio remote control.

112: Photovoltaics deactivated

Photovoltaics %n %1: Deactivated

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Incorrect parameterization detected during startup.

<u>Impact</u>: Photovoltaics is deactivated.

<u>Elimination</u>: Check paraterization and restart system.

113: Output deactivated

Free useable digital output %n %1: Deactivated

<u>Quittable</u>: x

<u>Prevents start</u>: x

Reason: Incorrect parameterization detected during startup.

Impact: Free useable digital output is deactivated.

Elimination: Check paraterization and restart system.

114: Smartgrid deactivated

Smartgrid %n %1: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: Smartgrid is deactivated.

Elimination: Check paraterization and restart system.

500: Frost protection active

Buffer %n %1: Frost protection active

Quittable: -

Prevents start: -

Reason: The frost protection monitor has detected a water temperature below the frost protection limit.

Impact: A heat request is made.

501: Frost protection alarm

Buffer %n %1: Frost protection alarm

Quittable: x

Prevents start: -

Reason: The frost protection monitoring has detected a water temperature below the antifreeze alarm limit.

Impact: The buffer storage runs the risk of frost.

510: Sensor top temperature

Buffer %n %1: Sensor top temperature broken (%2)

Quittable: -

Prevents start: -

Reason: The upper temperature sensor of the buffer memory is faulty.

Impact: The buffer memory is not ready for operation. It does not require any heat.

Elimination: The upper temperature sensor of the buffer storage or its wiring must be checked.

511: Overtemperature

Buffer %n %1: Overtemperature

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: The monitoring of the upper buffer temperature has been activated.

<u>Impact</u>: No heat is required.

<u>Elimination</u>: Wait until the temperature is below limitation.

513: Sensor bottom temperature

Buffer %n %1: Sensor bottom temperature (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: The upper temperature sensor of the buffer memory is faulty.

<u>Impact</u>: The buffer memory is in an emergency mode. The upper temperature is used.

<u>Elimination</u>: The lower temperature sensor of the buffer store or its wiring must be checked.

514: Buffer deactivated

Buffer %n %1: Deactivated

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Incorrect parameterization detected during startup.

<u>Impact</u>: Buffer is deactivated.

<u>Elimination</u>: Check paraterization and restart system.

515: Reflux mixer

Buffer tank %n %1: Reflux mixer broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: The return lift is faulty.

<u>Impact</u>: The mixer will be openend

<u>Elimination</u>: The return flow (return temperature sensor, mixer) must be checked.

550: Frost protection active

Hot water tank %n %1: Frost protection active

<u>Quittable</u>: -

<u>Prevents start</u>: -

Reason: The frost protection monitor has detected a water temperature below the frost protection limit.

Impact: A heat request is made.

551: Frost protection alarm

Hot water tank %n %1: Frost protection alarm

Quittable: x

Prevents start: -

Reason: The frost protection monitoring has detected a water temperature below the antifreeze alarm limit.

Impact: The hot water storage runs danger of being damaged by frost.

560: Sensor top temperature

Hot water tank %n %1: Sensor top temperature broken (%2)

Quittable: -

Prevents start: -

Reason: The upper temperature sensor of the hot water tank is faulty.

Impact: The hot water tank is in an emergency mode.

Elimination: The upper temperature sensor of the hot water storage tank or its wiring must be checked.

561: Overtemperature

Hot water tank %n %1: Overtemperature

Quittable: -

Prevents start: x

Reason: The temperature of the hot water tank has exceeded the maximum permissible temperature.

Impact: No heat is required.

563: Heat request timeout

Hot water tank %n %1: Heat request timed-out

Quittable: x

Prevents start: x

Reason: Manual load with broken top sensor or the hot water tank did not heat-up

Impact: To load manually again one must quit the error

564: Hot water tank pump

Hot water tank %n %1: pump broken (%2)

Quittable: -

Prevents start: x

Reason: The hot water storage charge pump signals an error.

Impact: The hot water tank is not ready for operation.

Elimination: The hot water storage charge pump or its wiring must be checked.

565: Hot water tank circulation pump

Hot water tank %n %1: circulation pump broken (%2)

Quittable: -

Prevents start: -

Reason: The hot water storage circulation pump indicates an error.

Impact: The DHW circulation pump is not ready for operation.

Elimination: The hot water storage circulation pump or its wiring must be checked.

566: Hot water tank deactivated

Hot water tank %n %1: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: Hot water tank is deactivated.

Elimination: Check paraterization and restart system.

567: Hot water tank heat pump

Hot water tank %n %1: hot water heat pump broken (%2)

Quittable: -

Prevents start: x

Reason: The hot water tank heat pump has an error

Impact: The hot water tank is not ready for operation.

Elimination: The hot water heat pump and its wiring has to be checked.

568: Hot water tank aux. heater

Hot water tank %n %1: auxiliary heater broken (%2)

Quittable: -

Prevents start: -

Reason: The hot water tank auxiliary heater has an error.

Impact: The hot water tank auxiliary heater is not ready for operation.

Elimination: The hot water tank auxiliary heater and its wiring has to be checked.

569: Hot water tank leg. timeout

Hot water tank %n %1:legionella desinfection timed out.

Quittable: x

Prevents start: -

Reason: Broken temperature sensor or hot water tank didn't got hot.

Elimination: Check why the top temperature didn't get high enough.

570: Hot water tank circulation temp.

Hot water tank %n %1: hot water tank circulation temperature sensor broken (%2)

Quittable: -

Prevents start: -

Reason: The circulation temperature sensor has an error.

Impact: Circulation pump will run the whole time, or timed.

Elimination: Change temperature sensor , check sensor input.

571: Hot water tank HX temp.

Hot water tank %n %1: hot water tank heating circuit source heat exchanger temperature sensor broken (%2)

Quittable: -

Prevents start: -

Reason: The heating circuit source heat exchanger temperature sensor has an error.

Impact: Domestic hot water heat pump will not work.

Elimination: Change temperature sensor , check sensor input.

572: Hot water tank cool cell temp.

Hot water tank %n %1: hot water cool cell temperature sensor broken (%2)

Quittable: -

Prevents start: -

Reason: Cool cell temperature sensor has an error.

Impact: Cooling cell will not work.

Elimination: Change temperature sensor , check sensor input.

573: Fresh water module temp.

Fresh water module %n %1:fresh water module temperature sensor broken (%2).

Quittable: -

<u>Prevents start</u>: -

<u>Reason</u>: Fresh water module temperature sensor has an error.

<u>Impact</u>: Fresh water module will not work.

<u>Elimination</u>: Change temperature sensor , check sensor input.

574: Fresh water module flow

Fresh water module %n %1:fresh water module flow switch broken (%2).

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Fresh water module flow switch has an error.

<u>Impact</u>: Fresh water module will not work.

<u>Elimination</u>: Check sensor input.

575: Fresh water module pump

Fresh water module %n %1:fresh water module pump broken (%2).

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Fresh water module pump has an error.

<u>Impact</u>: Fresh water module will not work.

<u>Elimination</u>: Change pump , check output.

576: Hot water tank HX temp. minimum

Hot water tank %n %1: hot water tank heating circuit source heat exchanger temperature limit reached

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: The heating circuit source heat exchanger temperature goes under parameterized limit

<u>Impact</u>: Domestic hot water heat pump will be disabled, auxiliary heat gets activated

<u>Elimination</u>: Check hydraulic. because the reflux temperature of heat circuit should not get under limitation (is heat circuit or heat source pump defect)

577: Sensor bottom temperature

Hot water tank %n %1: Sensor bottom temperature broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: The lower temperature sensor of the hot water tank is faulty.

Impact: The hot water tank is in an emergency mode.

Elimination: The lower temperature sensor of the hot water storage tank or its wiring must be checked.

600: Frost protection active

Heating circuit %n %1: Frost protection active

Quittable: -

Prevents start: -

Reason: The frost protection monitoring has detected a lowering of the flow temperature below the frost protection limit.

Impact: A heat request is made.

601: Frost protection alarm

Heating circuit %n %1: Frost protection alarm

Quittable: x

Prevents start: -

Reason: The frost protection monitoring has detected a water temperature below the antifreeze alarm limit.

Impact: The heating circuit runs the risk of being damaged by frost.

609: Wireless Remote Control

Heating circuit %n %1: Received invalid values from Wireless Remote Control

Quittable: -

Prevents start: -

Reason: An invalid value has been received by the radio remote control.

Impact: The radio remote control values are ignored.

Elimination: The radio remote control has to be checked.

610: Mixergroup

Heating circuit %n %1: Mixergroup broken (%2)

Quittable: -

Prevents start: x

Reason: The mixing group of the heating circuit is faulty.

Impact: The heating circuit is not ready for operation.

Elimination: The mixing group (flow temperature sensor, pump, and mixer) of the heating circuit must be checked.

611: Sensor room temperature

Heating circuit %n %1: Sensor room temperature broken (%2)

Quittable: -

Prevents start: -

Reason: The room temperature sensor is faulty.

Impact: The flow temperature is determined from the outside temperature and an assumed room temperature of 20.0° C.

Elimination: The room temperature sensor or its wiring must be checked.

612: Digital Remote Control

Heating circuit %n %1: Received invalid values from Digital Remote Control

Quittable: -

Prevents start: -

Reason: An invalid value has been received from the digital remote control.

Impact: The values of the digital remote control are ignored.

Elimination: The digital remote control has to be checked.

613: Pump Heating Circuit

Heating circuit %n %1: Pump broken (%2)

Quittable: -

Prevents start: x

Reason: The pump of the heating circuit is faulty.

Impact: The heating circuit is not ready for operation.

Elimination: The pump of the heating circuit must be checked.

614: Heating ciruit deactivated

Heating ciruit %n %1: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during start-up.

Impact: Heating circuit is deactivated.

Elimination: Check parametrization and restart system.

615: Screed Drying

Screed Drying: Check settings before resuming, then quit alarm.

Quittable: x

Prevents start: -

Reason: Screed drying settings have to be checked before resuming.

Impact: Screed drying is not started until confirmation.

Elimination: Confirm message.

616: Sensor room humidity

Heating circuit %n %1: Sensor room humidity broken (%2)

Quittable: -

Prevents start: -

Reason: The humidity room sensor is defect.

Impact: Cool function is deactivated.

Elimination: The humidity room sensor and its wiring must be proved.

617: Sensor reflux temperature

Heating circuit %n %1: Sensor reflux temperature broken (%2)

Quittable: -

Prevents start: -

Reason: Reflux temperature sensor is broken.

Impact: Reflux supervision is disabled.

Elimination: Reflux temperature sensor and its wiring has to be checked.

618: Communication error external Control

Heating circuit %n %1: Communication error to external controller

Quittable: x

Prevents start: -

Reason: Communication break to external controller because to telegram gets arrived

Impact: Mode of heating circuit switched to default

Elimination: check external controller

700: Sensor source temperature

Differential control %n %1: Sensor source temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Source temperature sensor is broken.

Impact: Differential controller is not operational.

Elimination: Change temperature sensor , check sensor and wiring.

701: Sensor flow temperature

Differential controller %n %1: Sensor flow temperature heatmeter broken (%2)

Quittable: -

Prevents start: x

Reason: Flow temperature sensor for calculation heat is broken

Impact: Calculation of heat is not possible.

Elimination: Check sensor and wiring.

702: Sensor reflux temperature

Differential controller %n %1: Sensor reflux temperature heatmeter broken (%2)

Quittable: -

Prevents start: x

Reason: Reflux temperature sensor for calculation heat is broken.

Impact: Heat calculation not possible.

Elimination: Check sensor and wiring.

703: Differential controller pump

Differential controller %n %1: Pump (circuit 1) broken (%2)

Quittable: -

Prevents start: x

Reason: Pump 1 of differential controller is broken.

Impact: Differential controller is not operational.

Elimination: Check actuator and wiring.

704: Differential controller pump

Differential controller %n %1: Pump (circuit 2) broken (%2)

Quittable: -

Prevents start: x

Reason: Pump 2 of differential controller is broken.

Impact: Differential controller is not operational.

Elimination: Check actuator and wiring.

707: Overtemperature

Differential controller %n %1: source overtemperature

Quittable: -

Prevents start: -

Reason: Measured source temperature has exceeded the parameterized limitation.

Impact: Pump is stopped.

Elimination: Wait until temperature has dropped below parameterized limitation.

708: Overtemperature

Differential controller target %n %1: Overtemperature

Quittable: -

Prevents start: -

Reason: Temperature of differential controller target is above parameterized maximum temperature.

Impact: Heat request is cancelled.

Elimination: Wait until temperature is below limitation.

709: Sensor reference temperature

Differential controller target %n %1: Sensor reference temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Reference temperature sensor broken.

Impact: Differential controller is not working.

Elimination: Check Sensor and wiring.

710: Heat Meter

Differential controller %n %1: Heatmeter broken (%2)

Quittable: -

Prevents start: -

Reason: Flow or reflux temperature sensor or counter input for heat meter is broken.

Impact: Calculation of heat is not possible.

Elimination: Check sensor and wiring.

711: Differential controller deactivated

Differential controller %n %1: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: Differential controller is deactivated.

Elimination: Check paraterization and restart system.

712: Differential controller target deactivated

Differential controller target %n %1: Deactivated

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Incorrect parameterization detected during startup.

<u>Impact</u>: Differential controller target is deactivated.

<u>Elimination</u>: Check paraterization and restart system.

800: Heat request DI

External Heat Request %n %1: Digital input broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: The digital input of the external heat request is faulty.

<u>Impact</u>: The external heat demand is not ready for operation.

<u>Elimination</u>: The digital input of the external heat demand or its wiring must be checked.

801: Heat request temperature AI

External Heat Request %n %1: Analog input broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: The analog input of the external heat request is faulty.

<u>Impact</u>: The external heat request is only operated with the digital input.

<u>Elimination</u>: The analog input of the external heat demand or its wiring must be checked.

802: Ext. request deactivated

External Heat Request %n %1: Deactivated

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Incorrect parameterization detected during startup.

<u>Impact</u>: External Heat Request is deactivated.

<u>Elimination</u>: Check paraterization and restart system.

803: Cool request DI

External Cool Request %n %1: Digital input broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

Reason: Digital input of external cool request is broken.

Impact: External request is not working

Elimination: Check cool request input and wiring

804: Dom. HW request DI

External domestic hot water request %n %1: Digital input broken (%2)

Quittable: -

Prevents start: x

Reason: Digital input of external domestic hot water request is broken.

Impact: External request is not working.

Elimination: Check domestic hot water request input and wiring.

860: Sensor ext. heat source temperature

Ext. heat source %n %1: temperature sensor broken (%2)

Quittable: -

Prevents start: -

Reason: The temperature sensor of the external heat source is faulty.

Impact: The temperature cannot be monitored.

Elimination: The temperature sensor of the external heat source or its wiring must be checked.

861: Ext. heat source

External heat source %n %1: digital output broken (%2)

Quittable: -

Prevents start: x

Reason: The digital output for the external heat source is faulty.

Impact: The external heat source cannot be requested.

Elimination: The digital output or its wiring must be checked.

862: Ext. heat source

External heat source %n %1: analog output broken (%2)

Quittable: -

Prevents start: x

Reason: The analog output to the external heat source is faulty.

Impact: The external heat source cannot be requested.

Elimination: The analogue output or its wiring must be checked.

863: Ext. heat source deactivated

External Heat Source %n %1: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: External Heat Source is deactivated.

Elimination: Check paraterization and restart system.

864: Sensor ext. heat source reflux temperature

Ext. heat source %n %1: Reflux temperature sensor broken (%2)

Quittable: -

Prevents start: -

Reason: The temperature sensor is faulty.

Impact: The temperature cannot be logged.

Elimination: The temperature sensor or its wiring must be checked.

865: ommunication error external Control

Ext. heat source %n %1: Communication error to external controller

Quittable: -

Prevents start: -

Reason: No communication to external control withn parameterized supervision time.

Impact: Signal for active heat generation get set, so circulation pump will be activated. Digital output for enabling heat source is reseted.

Elimination: Check external controller and communication network.

900: Heat source management deactivated

Heat source management: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: Heat source management is deactivated.

Elimination: Check paraterization and restart system.

1000: Heatpump deactivated

Heatpump %n %1: Deactivated

Quittable: -

<u>Prevents start</u>: x

<u>Reason</u>: Incorrect parameterization detected during startup.

<u>Impact</u>: Heatpump is deactivated.

<u>Elimination</u>: Check paraterization and restart system.

1001: Frost protection active

Heatpump %n %1: Frost protection active

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Water temperature has dropped below parameterized limitation.

<u>Impact</u>: Heat pump is started.

1002: Frost protection alarm

Heatpump %n %1: Frost protection alarm

<u>Quittable</u>: x

<u>Prevents start</u>: -

<u>Reason</u>: Water temperature has dropped below parameterized limitation.

<u>Impact</u>: Potential damage of heatpump by frosting.

1003: Sensor temperature compressor in

Heatpump %n %1: Compressor in temperature broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Compressor in temperature sensor is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check sensor and wiring.

1004: Sensor temperature compressor out

Heatpump %n %1: Compressor out temperature broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Compressor out temperature sensor is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check sensor and wiring.

1005: Max. compressor out temperature

Heatpump %n %1: Maximum compressor out temperatur exceeded

Quittable: -

Prevents start: x

Reason: Maximum compressor out temperature exceeded.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature drops below parameterized limit.

1006: Sensor temperature source in

Heatpump %n %1: Source in temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Source in temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1007: Sensor temperature source out

Heatpump %n %1: Source out temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Source out temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1008: Sensor temperature flow

Heatpump %n %1: Flow temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Flow temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1009: Sensor temperature reflux

Heatpump %n %1: Reflux temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Reflux temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1010: Limit switch high pressure

Heatpump %n %1: Limit switch high pressure triggered

Quittable: -

Prevents start: x

Reason: Limit switch high pressure has been triggered.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure drops below switch limit.

1011: Limit switch low pressure

Heatpump %n %1: Limit switch low pressure triggered

Quittable: -

Prevents start: x

Reason: Limit switch low pressure has been triggered.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure rises above switch limit.

1012: Sensor high pressure

Heatpump %n %1: Sensor high pressure broken (%2)

Quittable: -

Prevents start: x

Reason: Sensor high pressure is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1013: High pressure

Heatpump %n %1: Maximum pressure exceeded

Quittable: -

Prevents start: x

Reason: Maximum pressure exceeded.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure drops below parameterized limit.

1014: Sensor low pressure

Heatpump %n %1: Sensor low pressure broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Sensor low pressure is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check sensor and wiring.

1015: Low pressure

Heatpump %n %1: Pressure below limitation

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Pressure is below limitation.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Heat pump is operational again, when pressure rises above parameterized limit.

1016: Max. flow temperature

Heatpump %n %1: Maximum flow temperatur exceeded

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Maximum flow temperature exceeded.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Heat pump is operational again, when reflux temperature drops below parameterized limit.

1017: Sensor supervision

Heatpump %n %1: Sensor supervision

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Repeated occurrence of sensor alarms.

<u>Impact</u>: Heat pump is deactivated.

<u>Elimination</u>: Alarm has to be quit. Check sensors and wiring.

1018: Source side supervision

Heatpump %n %1: Source side supervision

<u>Quittable</u>: x

Visualization for heat generating systems 1019: Refrigeration cycle supervision

<u>Prevents start</u>: x

<u>Reason</u>: Repeated occurrence of alarms associated with source side of heat pump.

<u>Impact</u>: Heat pump is deactivated.

<u>Elimination</u>: Alarm has to be quit. Check sensors, actuators and wiring.

1019: Refrigeration cycle supervision

Heatpump %n %1: Refrigeration cylce supervision

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Repeated occurrence of alarms associated with refrigeration circuit of heat pump.

<u>Impact</u>: Heat pump is deactivated.

<u>Elimination</u>: Alarm has to be quit. Check sensors, actuators and wiring.

1020: Heating side supervision

Heatpump %n %1: Heating side supervision

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Repeated occurrence of alarms associated with heating side of heat pump.

<u>Impact</u>: Heat pump is deactivated.

<u>Elimination</u>: Alarm has to be quit. Check sensors, actuators and wiring.

1021: Min. source in temperature

Heatpump %n %1: Temperature source in below limitation

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Temperature is below limitation.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Heat pump is operational again, when temperature rises above parameterized limit.

1022: Min. source out temperature

Heatpump %n %1: Temperature source out below limitation

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Temperature is below limitation.

<u>Impact</u>: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature rises above parameterized limit.

1023: Min. reflux temperature

Heatpump %n %1: Temperature reflux below limitation

Quittable: -

Prevents start: x

Reason: Temperature is below limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature rises above parameterized limit.

1024: Sensor temperature condenser

Heatpump %n %1: Condenser out temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Condenser out temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1025: Compressor

Heatpump %n %1: External Compressor deactivation.

Quittable: -

Prevents start: x

Reason: Compressor is deactivated.

Impact: Heat pump is not operational.

Elimination: Check actuator and wiring.

1026: Source failure

Heatpump %n %1: Source failure

Quittable: -

Prevents start: x

Reason: Source supervision triggered.

Impact: Heat pump is not operational.

Elimination: Check source.

1027: Actuator source broken

Heatpump %n %1: Actuator source broken

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Actuator source is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check actuator and wiring.

1028: External locking

Heatpump %n %1: External locking via power supplier

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: External locking via power supplier

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check wiring and power supply.

1029: Variable frequency device

Heatpump %n %1: Variable frequency device broken

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Variable frequency device is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check variable frequency device and wiring.

1030: Defrosting Circuit Inversion

Heatpump %n %1: Defrosting Circuit Inversion timeout occurred

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Timer for starting circuit invasion has elapsed.

<u>Impact</u>: Auxiliary heating couldn't heat up enough for starting defrosting via circuit invasion.

<u>Elimination</u>: Check auxiliary heating and heat pump.

1031: Defrosting Timeout

Heatpump %n %1: Defrosting timeout occurred

<u>Quittable</u>: x

<u>Prevents start</u>: x

Reason: Maximum retries for finishing defrosting reached.

Impact: Heatpump is not operational.

Elimination: Check heat pump.

1032: Super heat control

Heatpump %n %1: Super heat control broken (%2)

Quittable: -

Prevents start: x

Reason: Super heat control broken.

Impact: Electronic expansion valve stays closed.

Elimination: Check sensors and wiring. Check parameterization of controller.

1033: Min. flow temperature

Heatpump %n %1: Temperature flow below limitation

Quittable: -

Prevents start: x

Reason: Temperature is below limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature rises above parameterized limit.

1034: Sensor temperature passiv cooling

Heatpump %n %1: Passiv cooling temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Passive cooling temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1035: Passive cooling supervision

Passive cooling %n %1: Passive cooling supervision

Quittable: -

Prevents start: -

Reason: Temperature in the passive cooling exchanger is below limit or the heat pump sets a source side flow supervision warning.

Impact: Passive cooling requests are disabled temporary.

Elimination:

1036: Passive cooling deactivated

Passive cooling %n %1: Deactivated

Quittable: -

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: Passive cooling is deactivated.

Elimination: Check paraterization and restart system.

1037: Flow SV heating

Heatpump %n %1: Flow supervision heating side triggerd

Quittable: -

Prevents start: x

Reason: Flow on heating side is below limitation.

Impact: Heat pump is not operational.

Elimination: Check heating side for problems.

1038: Flow switch heat side

Heatpump %n %1: Flow switch heat side

Quittable: -

Prevents start: x

Reason: Flow switch heat side has been triggered.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when there is flow rate at the heating side.

1039: HGHX

Heatpump %n %1: Hot gas heat exchanger broken (%2)

Quittable: -

Prevents start: -

Reason: Actuator or temperature sensor of HGHX is broken

Impact: The hotgas heat exchanger is not operational

Elimination: Check the sensor, actuator and wiring

1040: Heat/cool valve

Heatpump %n %1: Heat/cool valve defect.

Quittable: x

Prevents start: x

Reason: Valve is not switching correctly.

Impact: Heating or cooling is not working, because valve has incorrect position.

Elimination: Check valves.

1041: Condensate overflow

Heat pump%n %1: Water level of condensate collection pan too high.

Quittable: -

Prevents start: x

Reason: Condensate collection pan outlet blocked.

Impact: None

Elimination: Check blocked outlet.

1042: Compressor envelope

Heatpump %n %1: Compressor envelope

Quittable: -

Prevents start: x

Reason: Compressor operating point was too long outside envelope or the operating point has left the outer envelope.

Impact: Heat pump is not operational.

Elimination: Prove low and high pressure compared to the selected compressor envelope file to find out where and why the operating point was outside.

1043: Low pressure

Heatpump %n %1: Pressure below limitation

Quittable: x

Prevents start: x

Reason: Pressure is below limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure rises above parameterized limit.

1044: High pressure

Heatpump %n %1: Maximum pressure exceeded

Quittable: x

Prevents start: x

Reason: Maximum pressure exceeded.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure drops below parameterized limit.

1045: CO2 Temperature

Heatpump %n %1: CO2 temperature drop in heat pipe detected

Quittable: x

Prevents start: -

Reason: Suction pressure below limitation for long period.

Impact: Heat pump is working with reduced efficiency.

Elimination: Check CO2 heat pipe for overload and leakage.

1046: Min. source spread

Heatpump %n %1: Source side temperature difference below limitation

Quittable: -

Prevents start: x

Reason: Source side temperature difference below limitation for long time after compressor start.

Impact: Heat pump run with very low efficiency.

Elimination: Check sensors, actuators and wiring. Check flow on source side of heat pump.

1047: Min. heat spread

Heatpump %n %1: Heating side temperature difference below limitation

Quittable: -

Prevents start: x

Reason: Heating side temperature difference below limitation for long time after compressor start.

Impact: Heat pump run with very low efficiency.

Elimination: Check sensors, actuators and wiring. Check flow on heating side of heat pump.

1048: Min. pressure delta

Heatpump %n %1: Pressure difference below limitation

Quittable: -

Prevents start: x

Reason: Pressure difference below limitation below limitation for long time after compressor start.

Impact: Damage to refrigerant circuit may occur.

Elimination: Check sensors, actuators and wiring. Check refrigerant circuit of heat pump.

1049: Min. hot gas delta

Heatpump %n %1: Hot gas / condensation temperature difference below limitation

Quittable: -

Prevents start: x

Reason: Hot gas / condensation temperature difference below limitation for long time after compressor start.

Impact: Damage to refrigerant circuit may occur.

Elimination: Check sensors, actuators and wiring. Check refrigerant circuit of heat pump.

1050: Max. hot gas delta

Heatpump %n %1: Hot gas / condensation temperature difference limitation exceeded

Quittable: -

Prevents start: x

Reason: Hot gas / condensation temperature difference limitation exceeded for long time after compressor start.

Impact: Damage to refrigerant circuit may occur.

Elimination: Check sensors, actuators and wiring. Check refrigerant circuit of heat pump.

1051: Min. suction temperature

Heatpump %n %1: Suction temperature below limitation

Quittable: -

Prevents start: x

Reason: Suction temperature below limitation.

Impact: Excessive cooling-down of heat source.

Elimination: Check sensors, actuators and wiring. Check flow on source side and refrigerant circuit of heat pump.

1052: Heatmeter

Heatpump %n %1: Heat meter broken (%2).

Quittable: -

Prevents start: -

Reason: Temperature or input sensor defect.

Impact: Heat meter not working.

Elimination: Check wiring and sensors.

1053: Coolmeter

Heatpump %n %1: Cool meter broken (%2).

Quittable: -

Prevents start: -

Reason: Temperature or input sensor defect.

Impact: Cool meter not working.

Elimination: Check wiring and sensors.

1054: Hot water meter

Heatpump %n %1: Hot water meter broken (%2).

Quittable: -

Prevents start: -

Reason: Temperature or input sensor defect.

Impact: Hot water meter not working.

Elimination: Check wiring and sensors.

1055: Sensor temperature source unit

Heatpump %n %1: Source outdoor unit temperature sensor broken (%2)

Quittable: -

Prevents start: x

Reason: Source outdoor unit temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1056: Sensor temp. second comp. out

Heatpump %n %1: Second Compressor out temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Compressor out temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1057: Max. second compressor out temp.

Heatpump %n %1: Maximum second compressor out temperatur exceeded

Quittable: -

Prevents start: x

Reason: Maximum compressor out temperature exceeded.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature drops below parameterized limit.

1058: Pressure sensor VI

Heatpump %n %1: Pressure sensor vapor injection broken

Quittable: -

Prevents start: -

Reason: Pressure sensor for vapor injection has an error.

Impact: Vapor injection will not work.

Elimination: Change pressure sensor or check sensor input.

1059: Temperature sensor VI

Heatpump %n %1: Temperature sensor vapor injection broken

Quittable: -

Prevents start: -

Reason: Temperature sensor for vapor injection has an error.

Impact: Vapor injection will not work.

Elimination: Change temperature sensor or check sensor input.

1060: Super heat ctrl. VI

Heatpump %n %1: Superheat control vapor injection broken

Quittable: -

Prevents start: -

Reason: Super heat control for vapor injection is broken or use wrong parameter.

Impact: Vapor injection will not work.

Elimination: Check sensors and wiring. Check parameterization of controller.

1061: Valve 1 VI

Heatpump %n %1: Solenoid valve 1 vapor injection broken

Quittable: -

Prevents start: -

Reason: Solenoid valve 1 for vapor injection is broken.

Impact: Vapor injection will not work.

Elimination: Check actuator and wiring.

1062: Valve 2 VI

Heatpump %n %1: Solenoid valve 2 vapor injection broken

Quittable: -

Prevents start: -

Reason: Solenoid valve 2 for vapor injection is broken.

Impact: Vapor injection will not work.

Elimination: Check actuator and wiring.

1063: Oil temperature

Heatpump %n %1: Oil temperature broken

Quittable: -

Prevents start: -

Reason: Oil temperature sensor is broken.

Impact: Heat up of oil sump is triggered based on exterior temperature sensor.

Elimination: Check wiring and sensor.

1064: Max. source in temperature

Heatpump %n %1: Temperature source in above limitation.

Quittable: -

Prevents start: x

Reason: Temperature is above limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature drops below parameterized limit.

1065: Source flow meter

Heatpump %n %1: Source flow meter broken

Quittable: -

Prevents start: x

Reason: Flow meter on source side is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1066: Flow SV source

Heatpump %n %1: Flow supervision source triggerd

Quittable: -

Prevents start: x

Reason: Flow on source side is below limitation.

Impact: Heat pump is not operational.

Elimination: Check source side for problems.

1067: Humidity sensor

Heatpump %n %1: Humidity sensor broken

Quittable: -

Prevents start: -

Reason: Humidity sensor broken.

Impact: Switching between defrosting by fan / circuit invasion based on measured humidity is not possible.

Elimination: Check sensor and wiring.

1068: Heat-up active

Heatpump %n %1: Heat-up with auxiliary heater for defrosting active. If the flow temperature rises, defrosting is continued.

Quittable: -

Prevents start: -

Reason: Flow temperature too low.

Impact: Auxiliary is activated.

Elimination: Raise flow temperature.

1069: Source leakage

Heatpump %n %1: Source leakage reckognized.

Quittable: -

Prevents start: x

Reason: Damage on source.

Impact: Heat pump inactive.

Elimination: Repair leakage and fill source.

1070: Subcooling Ctrl

Heatpump %n %1: Subcooling control inactive.

Quittable: -

Prevents start: -

Reason: Required sensors broken or invalid parametrization.

Impact: Subcooling control is inactive.

Elimination: Check sensors and actuator. Check parameterization.

1071: Source

Heatpump %n %1: Source broken

Quittable: -

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Prevents start: x

Reason: Source is broken.

Impact: Heat pump is not operational.

Elimination: Check source and wiring.

1072: Circulation pump

Heatpump %n %1: Circulation pump broken

Quittable: -

Prevents start: x

Reason: Circulation pump is broken.

Impact: Heat pump is not operational.

Elimination: Check circulation pump and wiring.

1073: Phase monitor

Heatpump %n %1: Phase monitor triggered

Quittable: -

Prevents start: x

Reason: Phase monitor is triggered.

Impact: Heat pump is not operational.

Elimination: Check wiring of compressor supply.

1074: Phase monitor 2

Heatpump %n %1: Phase monitor stage 2 triggered

Quittable: -

Prevents start: x

Reason: Phase monitor for stage 2 is triggered.

Impact: Heat pump is not operational.

Elimination: Check wiring of compressor supply.

1075: Limit switch high pressure 2

Heatpump %n %1: Limit switch high pressure stage 2 triggered

Quittable: -

Prevents start: x

Reason: Limit switch high pressure stage 2 has been triggered.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure drops below switch limit.

1076: Limit switch low pressure 2

Heatpump %n %1: Limit switch low pressure stage 2 triggered

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Limit switch low pressure stage 2 has been triggered.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Heat pump is operational again, when pressure rises above switch limit.

1077: Sensor temperature compressor in 2

Heatpump %n %1: Stage 2 compressor in temperature broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Temperature sensor is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check sensor and wiring.

1078: Sensor low pressure 2

Heatpump %n %1: Stage 2 sensor low pressure broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Pressure sensor is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check sensor and wiring.

1079: Low pressure 2

Heatpump %n %1: Stage 2 pressure below limitation

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Pressure is below limitation.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Heat pump is operational again, when pressure rises above parameterized limit.

1080: Sensor high pressure 2

Heatpump %n %1: Stage 2 sensor high pressure broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

Alarms, Version: 1.0

Reason: Pressure sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1081: High pressure 2

Heatpump %n %1: Stage 2 maximum pressure exceeded

Quittable: -

Prevents start: x

Reason: Pressure is below limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure rises above parameterized limit.

1082: Sensor 2 temperature source in

Heatpump %n %1: Sensor 2 for source in temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1083: Sensor 2 temperature source out

Heatpump %n %1: Sensor 2 for source out temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1084: Sensor 2 temperature flow

Heatpump %n %1: Sensor 2 for flow temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1085: Sensor 2 temperature reflux

Heatpump %n %1: Sensor 2 for reflux temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Temperature sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1086: Min. source in temperature 2

Heatpump %n %1: Temperature source in sensor 2 below limitation

Quittable: -

Prevents start: x

Reason: Temperature is below limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature rises above parameterized limit.

1087: Min. source out 2 temperature

Heatpump %n %1: Temperature source out 2 below limitation

Quittable: -

Prevents start: x

Reason: Temperature is below limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature rises above parameterized limit.

1088: Max. flow temperature

Heatpump %n %1: Maximum flow temperatur exceeded

Quittable: -

Prevents start: x

Reason: Temperature is above limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when temperature drops below parameterized limit.

1089: Sensor source pressure

Heatpump %n %1: Sensor source pressure broken (%2)

Quittable: -

Prevents start: x

Reason: Pressure sensor is broken.

Impact: Heat pump is not operational.

Elimination: Check sensor and wiring.

1090: Low source pressure

Heatpump %n %1: Source pressure below limitation

Quittable: -

Prevents start: -

Reason: Pressure is below limitation.

Impact: Warning is triggered, heapump stays operational.

Elimination: Warning is resetted, when pressure rises above parameterized limit.

1091: Low source pressure

Heatpump %n %1: Source pressure below limitation

Quittable: -

Prevents start: x

Reason: Pressure is below limitation.

Impact: Heat pump is not operational.

Elimination: Heat pump is operational again, when pressure rises above parameterized limit.

1092: High source pressure

Heatpump %n %1: Source maximum pressure exceeded

Quittable: -

Prevents start: -

Reason: Pressure is above limitation.

Impact: Warning is triggered, heapump stays operational.

Elimination: Warning is resetted, when pressure drops below parameterized limit.

1093: Source heatmeter

Heatpump %n %1: Source heatmeter broken (%2)

Quittable: -

Prevents start: -

Reason: Temperature or input sensor defect.

Impact: Meter is not working.

<u>Elimination</u>: Check sensors and wiring.

1094: Source mixer group

Heatpump %n %1: Source mixer group broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Mixergroup of heatpump source is broken.

<u>Impact</u>: Source temperature control inactive.

<u>Elimination</u>: Check sensors, actuators and parameterization.

1095: Super heat control 2

Heatpump %n %1: Super heat control 2 broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Super heat control broken.

<u>Impact</u>: Electronic expansion valve stays closed. Heat pump is not operational.

<u>Elimination</u>: Check sensors and wiring. Check parameterization of controller.

1096: Super heat control 3

Heatpump %n %1: Super heat control 3 broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Super heat control broken.

<u>Impact</u>: Electronic expansion valve stays closed. Heat pump is not operational.

<u>Elimination</u>: Check sensors and wiring. Check parameterization of controller.

1097: Compressor Timeout

Heatpump %n %1: Compressor timeout occurred

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Compressor has not started.

<u>Impact</u>: Heatpump is not operational.

<u>Elimination</u>: Check compressor and if used VFD settings and state.

1098: Sensor temperature compressor in 3

Heatpump %n %1: Compressor in 3 temperature broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Temperature sensor is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check sensor and wiring.

1099: Sensor low pressure 3

Heatpump %n %1: Sensor low pressure 3 broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Pressure sensor is broken.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Check sensor and wiring.

1100: Frost protection active

Passive cool%n %1: Frost protection active

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Water temperature has dropped below parameterized limitation.

<u>Impact</u>: Heat pump is stopped.

<u>Elimination</u>: Check passive cool switch valve.

1101: Frost protection alarm

Passive cooling %n %1: Frost protection alarm

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Water temperature has dropped below parameterized limitation.

<u>Impact</u>: Potential damage of passive cooler by frosting.

<u>Elimination</u>: Check why temperature is falling although source and het pump is off.

1102: Passive cool pump

Passive cool pump %n %1 broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Pump defect.

<u>Impact</u>: Passive cooling not working

Elimination: Check passive cool pump.

1103: Mixergroup

Passive cooling %n %1: Mixergroup broken (%2)

Quittable: -

Prevents start: x

Reason: The mixer group of passive cooling is not ok.

Impact: Passive cooling is not working.

Elimination: The mixer group of passive cooling (flow temperature, mixer) has to be checked.

1150: Source management deactivated

Heatpump source management: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: Source management of heatpump is deactivated. Heatpump is not operational and shut down.

Elimination: Check and correct parameterization. Restart system.

1151: No HP sources available

Heatpump source management: No sources available

Quittable: -

Prevents start: x

Reason: All heatpump sources are not available or broken.

Impact: Heatpump is not operational and shut down.

Elimination: Check heatpump sources for actuator and sensor errors.

1152: HP source actuator

Heatpump source %n %1: Actuator broken (%2)

Quittable: -

Prevents start: -

Reason: Actuator of heatpump source is broken.

Impact: Heatpump source is not operational and shut down. If availabe an other source is used.

Elimination: Check actuator of heatpump source.

1153: HP source temperature

Heatpump source %n %1: Sensor source temperature broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Temperature sensor of heatpump source is broken.

<u>Impact</u>: Heatpump source is not operational and shut down. If availabe an other source is used.

<u>Elimination</u>: Check sensor and wiring.

1154: HP source fan

Heatpump source %n %1: Fan broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Fan of heatpump source is broken.

<u>Impact</u>: Heatpump source is not operational and shut down. If availabe an other source is used.

<u>Elimination</u>: Check actuator of heatpump source.

1155: HP source mixergroup

Heatpump source %n %1: Mixergroup broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Mixergroup of heatpump source is broken.

<u>Impact</u>: Heatpump is not operational and shut down. If availabe an other source is used.

<u>Elimination</u>: Check mixergroup of heatpump source.

1300: Difference controller temp.

Difference controller %n %1:difference controller temperature sensor 1 broken (%2).

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Difference controller temperature sensor 1 has an error.

<u>Impact</u>: Difference controller will not work.

<u>Elimination</u>: Change temperature sensor , check sensor input.

1301: Difference controller temp.

Difference controller %n %1:difference controller temperature sensor 2 broken (%2).

<u>Quittable</u>: -

Prevents start: -

Reason: Difference controller temperature sensor 2 has an error.

Impact: Difference controller will not work.

Elimination: Change temperature sensor , check sensor input.

1302: Difference controller output

Difference controller %n %1:Difference controller output broken (%2).

Quittable: -

Prevents start: -

Reason: Difference controller output has an error.

Impact: Difference controller will not work.

Elimination: Change actuator, check output.

1303: Difference controller min. temp 1

Difference controller %n: Temperature 1 too low.

Quittable: -

Prevents start: -

Reason: The temperature 1 is below the parameterized threshold.

Impact: Difference controller not operable.

Elimination: Check system.

1304: Difference controller max.temp 1

Difference controller %n: Temperature 1 too high

Quittable: -

Prevents start: -

Reason: The temperature 1 is above the parameterized threshold.

Impact: Difference controller not operable.

Elimination: Check system.

1305: Difference controller min. temp. 2

Difference controller %n: Temperature 2 too low.

Quittable: -

Prevents start: -

Reason: The temperature 2 is below the parameterized threshold.

Impact: The temperature 2 is below the parameterized threshold.

Elimination: Check system.

1306: Difference controller max. temp 2

Difference controller %n: Temperature 2 too high.

Quittable: -

Prevents start: -

Reason: The temperature 2 is above the parameterized threshold.

Impact: Difference controller not operable.

Elimination: Check system.

1350: Thermostat controller temp.

Thermostat controller %n %1:thermostat controller temperature sensor broken (%2).

Quittable: -

Prevents start: -

Reason: Thermostat controller temperature sensor has an error.

Impact: Thermostat controller will not work.

Elimination: Change temperature sensor , check sensor input.

1351: Thermostat controller output

Thermostat controller Thermostat controller output broken (%2).

Quittable: -

Prevents start: -

Reason: Thermostat controller output has an error.

Impact: Thermostat controller will not work.

Elimination: Change actuator, check output.

1352: Thermostat controller min. temp

Thermostat controller %n: Temperature too low.

Quittable: -

Prevents start: -

Reason: The temperature is below the parameterized threshold.

Impact: Thermostat controller not operable.

Elimination: Check system.

1353: Thermostat controller max.temp

Thermostat controller %n: Temperature too high

Quittable: -

Prevents start: -

Reason: The temperature is above the parameterized threshold.

Impact: Thermostat controller not operable.

Elimination: Check system.

1375: Universal controller deactivated

Universal controller %n %1: Deactivated

Quittable: x

Prevents start: -

Reason: Incorrect parameterization detected during startup.

Impact: Universal controller is deactivated.

Elimination: Check paraterization and restart system.

1400: CL temp. flow

Consumption level%n %1:consumption level temperature sensor flow broken (%2).

Quittable: -

Prevents start: -

Reason: Consumption level temperature sensor flow has an error.

Impact: Consumption level will not work.

Elimination: Change temperature sensor , check sensor input.

1401: CL temp. sink

Consumption level%n %1:consumption level temperature sensor sink broken (%2).

Quittable: -

Prevents start: -

Reason: Consumption level temperature sensor sink has an error.

Impact: Consumption level will not work.

Elimination: Change temperature sensor , check sensor input.

1402: CL switch valve

Consumption level%n %1:consumption level switch valve broken (%2).

Quittable: -

Prevents start: -

Reason: Consumption level switch valve has an error.

Impact: Consumption level will not work.

Elimination: Check switch valve.

1403: CL min. temp flow

Consumption level %n: Temperature flow too low.

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: The temperature flow is below the parameterized threshold.

<u>Impact</u>: Consumption level not operable.

<u>Elimination</u>: Check system.

1404: CL max. temp flow

Consumption level %n: Temperature flow too high.

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: The temperature flow is above the parameterized threshold.

<u>Impact</u>: Consumption level not operable.

<u>Elimination</u>: Check system.

1405: CL min. temp sink

Consumption level %n: Temperature sink too low.

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: The temperature sink is below the parameterized threshold.

<u>Impact</u>: Consumption level not operable.

<u>Elimination</u>: Check system.

1406: CL max. temp sink

Consumption level %n: Temperature sink too high.

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: The temperature sink is above the parameterized threshold.

<u>Impact</u>: Consumption level not operable.

<u>Elimination</u>: Check system.

1407: Heatmeter

Consumption level %n %1:Heat meter broken (%2).

<u>Quittable</u>: -

<u>Prevents start</u>: -

Reason: Temperature or input sensor defect.

Impact: Heat meter not working.

Elimination: Check wiring and sensors.

1450: Collector sensor

SCPU %n %1: collector sensor broken (%2).

Quittable: -

Prevents start: x

Reason: Collector sensor is broken.

Impact: SCPU is not operational.

Elimination: Change temperature sensor , check sensor and wiring.

1451: Collector 2 sensor

SCPU %n %1: collector 2 sensor broken (%2).

Quittable: -

Prevents start: x

Reason: Collector sensor 2 is broken.

Impact: SCPU is not operational.

Elimination: Change temperature sensor , check sensor and wiring.

1452: SCPU pump

SCPU %n %1: Pump broken (%2)

Quittable: -

Prevents start: x

Reason: Pump of SCPU is broken.

Impact: SCPU is not operational.

Elimination: Check actuator and wiring.

1453: SCPU valve

SCPU %n %1:Switch valve broken (%2)

Quittable: -

Prevents start: x

Reason: Switch valve of SCPU is broken.

Impact: SCPU is not operational.

Elimination: Check actuator and wiring.

1454: Overtemperature

SCPU %n: collector overtemperature

Quittable: -

Prevents start: -

Reason: Measured collector temperature has exceeded the parameterized limitation.

Impact: Pump is stopped.

Elimination: Wait until temperature has dropped below parameterized limitation.

1455: Heatmeter

SCPU %n %1:Heat meter broken (%2).

Quittable: -

Prevents start: -

Reason: Temperature or input sensor defect.

Impact: Heat meter not working.

Elimination: Check wiring and sensors.

1456: Prim. flow sensor

SCPU %n %1: primary flow temperature sensor broken (%2).

Quittable: -

Prevents start: x

Reason: Primary flow temperature sensor is broken.

Impact: SCPU is not operational.

Elimination: Change temperature sensor , check sensor and wiring.

1457: Prim. reflux sensor

SCPU %n %1: primary reflux temperature sensor broken (%2).

Quittable: -

Prevents start: x

Reason: Primary reflux temperature sensor is broken.

Impact: SCPU is not operational.

Elimination: Change temperature sensor , check sensor and wiring.

1458: Sensor solar pressure

SCPU %n %1: Sensor solar pressure broken (%2)

Quittable: -

Prevents start: x

Reason: Pressure sensor is broken.

Impact: SCPU is not operational.

Elimination: Check sensor and wiring.

1459: Low solar pressure

SCPU %n %1: Solar pressure below limitation

Quittable: -

Prevents start: x

Reason: Pressure is below limitation.

Impact: SCPU is not operational.

Elimination: SCPU is operational again, when pressure rises above parameterized limit.

1460: High solar pressure

SCPU %n %1: Solar maximum pressure exceeded

Quittable: -

Prevents start: x

Reason: Pressure is above limitation.

Impact: SCPU is not operational.

Elimination: SCPU is operational again, when pressure drops below parameterized limit.

1500: Controller lock deactivated

Controller lock inputs %n %1: Deactivated

Quittable: x

Prevents start: -

Reason: Incorrect parameterization detected during startup.

Impact: Controller lock inputs are deactivated.

Elimination: Check paraterization and restart system.

1550: Sensor temperature flow passiv cooling

Passiv cooling %n %1: Sensor temperature flow broken (%2)

Quittable: -

Prevents start: -

Reason: Sensor is broken.

Impact: Temperature spread control for passive cooling is not operational.

Elimination: Change temperature sensor , check sensor and wiring.

1551: Sensor temperature reflux passiv cooling

Passiv cooling %n %1: Sensor temperature reflux broken (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: -

<u>Reason</u>: Sensor is broken.

<u>Impact</u>: Temperature spread control for passive cooling is not operational.

<u>Elimination</u>: Change temperature sensor , check sensor and wiring.

1600: Low pressure 3

Heatpump %n %1: Pressure sensor 3 below limitation

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Pressure is below limitation.

<u>Impact</u>: Heat pump is not operational.

<u>Elimination</u>: Heat pump is operational again, when pressure rises above parameterized limit.

1601: Sensor supervision 2

Heatpump %n %1: Sensor supervision refrigerant cycle 2

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Repeated occurrence of sensor alarms.

<u>Impact</u>: Refrigerant cycle 2 is deactivated.

<u>Elimination</u>: Alarm has to be quit. Check sensors and wiring.

1602: Refrigeration cycle 2 supervision

Heatpump %n %1: Refrigeration cylce 2 supervision

<u>Quittable</u>: x

<u>Prevents start</u>: x

<u>Reason</u>: Repeated occurrence of alarms associated with refrigeration circuit of heat pump.

<u>Impact</u>: Refrigerant cycle 2 is deactivated.

<u>Elimination</u>: Alarm has to be quit. Check sensors, actuators and wiring.

1603: High pressure 2

Heatpump %n %1: Maximum pressure refrigerant cycle 2 exceeded

<u>Quittable</u>: x

Prevents start: x

Reason: Maximum pressure exceeded.

Impact: Refrigerant cycle 2 is not operational.

Elimination: Heat pump is operational again, when pressure drops below parameterized limit.

1604: Low pressure 2

Heatpump %n %1: Pressure refrigerant cycle 2 below limitation

Quittable: x

Prevents start: x

Reason: Pressure is below limitation.

Impact: Refrigerant cycle 2 is not operational.

Elimination: Heat pump is operational again, when pressure rises above parameterized limit.

1605: Oil temperature

Heatpump %n %1: Oil temperature 2 broken

Quittable: -

Prevents start: -

Reason: Oil temperature sensor compressor stage 2 is broken.

Impact: Heat up of oil sump is triggered based on exterior temperature sensor.

Elimination: Check wiring and sensor.

1700: Communication error

Ext. heat pump controller Rego5200 %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address and power supply.

1701: Communication error

Cascade secondary %n (Addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to cascade secondary.

Impact: This part of cascade can't be controlled anymore.

Elimination: Check wiring, setting, power supply of affected AP4xx device.

1702: Address conflict

Cascade secondary%n (Addr.: %1): Address conflict

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: There are 2 or more AP4xx with same station address setting.

<u>Impact</u>: This part of cascade can't be controlled.

<u>Elimination</u>: Check station address setting on detail mask of secondary AP44x.

1703: Communication error

Cascade master: Communication error

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: Communication breakdown to cascade primary.

<u>Impact</u>: This part of cascade can't be controlled anymore.

<u>Elimination</u>: Check wiring, setting, power supply of affected AP4xx device.

1704: ECBlue malfunction

ECBlue %n (addr.: %1): Malfunction (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: I/O module has a malfunction.

<u>Impact</u>: Functional units based on this module are not operating.

<u>Elimination</u>: Check wiring, power supply and bus connection.

1705: EbmPapst malfunction

EbmPapst %n (addr.: %1): Malfunction (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

<u>Reason</u>: I/O module has a malfunction.

<u>Impact</u>: Functional units based on this module are not operating.

<u>Elimination</u>: Check wiring, power supply and bus connection.

1706: OneEmerson malfunction

OneEmerson %n (addr.: %1): Malfunction (%2)

<u>Quittable</u>: -

<u>Prevents start</u>: x

Reason: I/O module has a malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check wiring, power supply and bus connection.

1707: Rego5200 malfunction

Rego5200 %n (addr.: %1): Malfunction (%2)

Quittable: -

Prevents start: x

Reason: I/O module has a malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check wiring, power supply and bus connection.

1708: Communication error

VFD PSD2 %n (addr.: %1): Communication error

Quittable: -

Prevents start: x

Reason: Communication breakdown to I/O module.

Impact: Functional units based on this module are not operating.

Elimination: Check bus connection, bus address and power supply.

1709: PSD2 malfunction

PSD2 %n (addr.: %1): Malfunction (code: %2)

Quittable: -

Prevents start: x

Reason: I/O module has malfunction.

Impact: Functional units based on this module are not operating.

Elimination: Check wiring, power supply and bus connection.

1800: Ext. heat pump deactivated

External heat pump %n %1: Deactivated

Quittable: x

Prevents start: x

Reason: Incorrect parameterization detected during startup.

Impact: External heat pump is deactivated.

Elimination: Check paraterization and restart system.

1801: Sensor ext. heat pump temperature

Ext. heat pump%n %1: temperature sensor flow broken (%2)

Quittable: -

Prevents start: -

Reason: The temperature sensor of the external heat pump is faulty.

Impact: The temperature cannot be monitored.

Elimination: The temperature sensor of the external heat pump or its wiring must be checked.

1802: Heatmeter

External heatpump %n %1: Heat meter broken (%2).

Quittable: -

Prevents start: -

Reason: Temperature or input sensor defect.

Impact: Heat meter not working.

Elimination: Check wiring and sensors.

1803: Sensor temperature source out

External heatpump %n %1: Source out temperature broken (%2)

Quittable: -

Prevents start: x

Reason: Source out temperature sensor is broken.

Impact: t pump is not operational.

Elimination: Check sensor and wiring.

1900: Sensor data recording deactivated

Data recording %n for sensor %1: Deactivated

Quittable: -

Prevents start: -

Reason: Incorrect parameterization detected during startup.

Impact: Recording of sensor values is deactivated.

Elimination: Check paraterization and restart system.

1901: Sensor data recording

Data recording %n for sensor %1: Sensor broken (%2)

Quittable: -

Prevents start: -

Reason: Sensor for data recording is broken.

Impact: The recorded values remain at the last valid value before the sensor error.

Elimination: Check sensor and wiring.

3. Detail information

10: Object is disabled

<u>Reason</u>: Internal ID. The object is not active.

50: Sensor failure

<u>Reason</u>: The sensor reports an (internal) error.

51: Sensor underflow

<u>Reason</u>: The sensor signals that the measuring range has been undershot.

52: Sensor overflow

<u>Reason</u>: The sensor signals an exceeding of the measuring range.

53: Sensor break

<u>Reason</u>: The sensor reports a sensor break.

54: Sensor short circuit

<u>Reason</u>: The sensor reports a short circuit.

55: Sensor plausibility check failed

<u>Reason</u>: The sensor value is outside the specified plausibility range.

56: Sensor type not defined

<u>Reason</u>: The sensor type is not specified.

57: Sensor input not populated.

<u>Reason</u>: Sensorinput is not populated on IO board circuit.

60: Actuator failure

<u>Reason</u>: The actuator reports an (internal) error.

61: Actuator overload

<u>Reason</u>: The actuator reports an overload.

62: Actuator overheat

<u>Reason</u>: The temperature supervision of the actuator has been triggered.

65: Actuator current supervision in error state

<u>Reason</u>: The current monitoring of the actuator has an error.

66: Actuator overcurrent

<u>Reason</u>: The current monitor has detected an exceeding of the current limit.

67: Actuator undercurrent

<u>Reason</u>: The current monitor has detected an undershooting of the current limit.

68: Actuator group error

<u>Reason</u>: The collective error monitoring has detected an error.

69: Actuator output not populated

<u>Reason</u>: Actuator output is not populated on IO board circuit.

70: Selftest failed

<u>Reason</u>: The self-test of the unit has failed.

71: Plausibility check failed

<u>Reason</u>: The unit reports an error due to a plausibility check.

72: Timeout exceeded

<u>Reason</u>: The unit reports an error due to a timeout.

73: Pause time

<u>Reason</u>: The unit cannot be activated because a pause time must be observed.

74: Max on time exceeded

<u>Reason</u>: The unit has deactivated itself automatically because time supervision, which monitors the maximum duty cycle, has been triggered.

75: Retry count exceeded

<u>Reason</u>: The maximum number of attempts has been reached.

76: Controller supervision

<u>Reason</u>: The control loop supervision has detected an imminent instability of the control loop.

77: Open Loop Control

Reason: The actuator of the unit is directly controlled due to a fault of the sensor or the control loop monitoring.

78: Overtemperature

Reason: An excess temperature was detected in the unit.

79: Undertemperature

Reason: A too low temperature was detected in the unit.

90: Not Stable Yet

Reason: The unit is working, but has not yet reached a stable (stationary) state.