

A quick guide for solving simple problems in the Climatix controller

2. Sheet – Display - Climatix controller
3. Sheet – Alarm list – alarm confirmation
4. Sheet – Auxiliary mode check
5. Sheet – Water heater - anti-freeze thermostat 1
6. Sheet – Water heater - anti-freeze thermostat 2
7. Sheet – Water heater - Low heating water temperature
8. Sheet – Fire central alarm

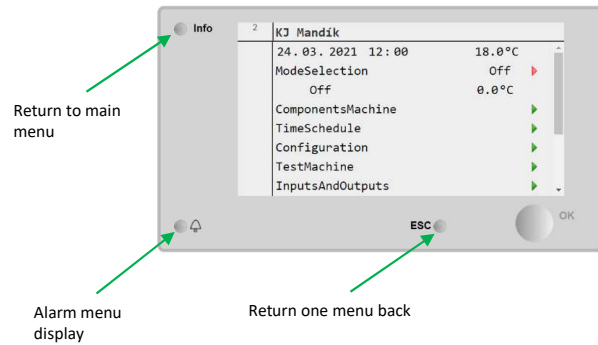
Note:

If necessary, more detailed instructions for operating the Climatix controller can be found here:

<https://mandik.cz/getattachment/159fa25e-33fb-4046-b921-4c817850a9dc/.aspx>



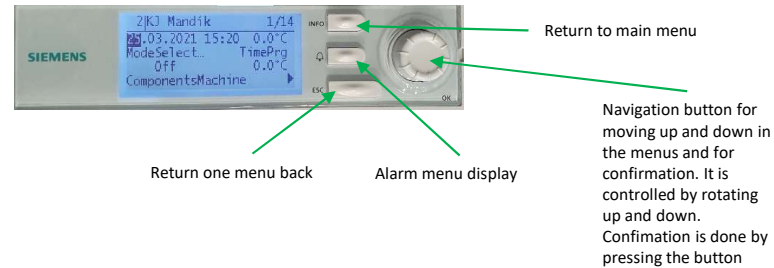
Main menu of climatix regulator with web server visualisation



Expansion display for Climatix controller POL871



Climatix controller display



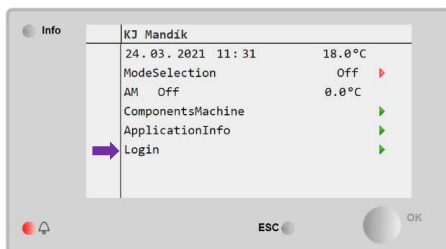
Display of the Climatix controller note :

Climatix controller display, its expansion displays and climatix web server use same basic visualization, this means all the menus have same structure and values on all of the displays only difference is in number of lines displayed on each of types of display.

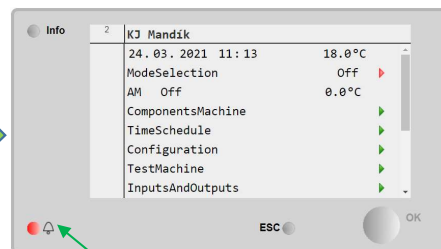
Quick Fix

Alarm list – Alarm confirmation

1. Step – Login - 2222

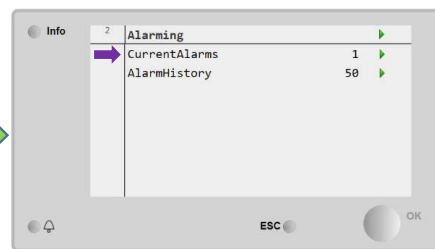


2. Step – Bell symbol



Bell symbol (button on controller)

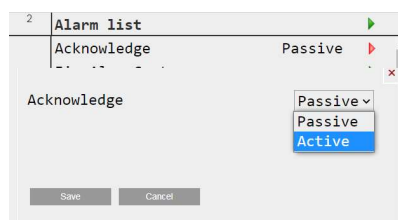
3. Step – Alarm menu



4. Step – Alarm list(confirmation of alarms)



5. Step – Acknowledge/ Active



Note2:

A list of possible alarms and their meaning can be found in the Climatix controller manual. You can find the manual at:

<https://mandik.cz/getattachment/159fa25e-33fb-4046-b921-4c817850a9dc/>



Description:

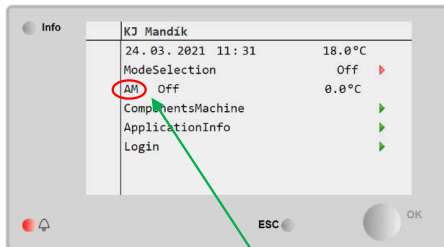
If the bell symbol flashes, it means that there is a new alarm on the unit that has not yet been acknowledged. If the alarm does not disappear after acknowledging the alarm, it means that the problem that caused the alarm still persists. First you need to solve the problem that caused the alarm and then acknowledge it again. Some alarms do not need to be acknowledged, by resolving the problem or by change of the conditions that caused the alarm, the alarms will automatically disappear.

Note:

The fault is indicated on the controller display by a bell symbol in the upper right corner. The alarm menu is accessed by using the button with the bell symbol.

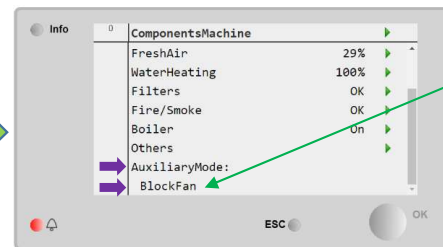
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1. Step – Login - 2222



Indication of active auxiliary mode

2. Step – AuxiliaryMode



Description :

Auxiliary mode displays if one of the special operating modes is active, such as: dehumidification / humidification, increased CO2 level or "Fan blocking,, like here (this auxiliary mode appears, for example, in the event of water heater faults, see sheets 4 and 5).

Note:

If the unit behaves abnormally, in addition to the alarm list, the auxiliary mode must also be checked.

Note2:

A list of possible auxiliary modes and their meaning can be found in the Climatix controller manual. You can find the manual at:

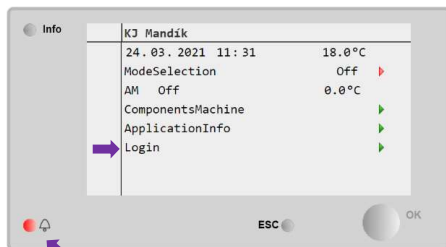
<https://mandik.cz/getattachment/159fa25e-33fb-4046-b921-4c817850a9dc/.aspx>



Quick Fix

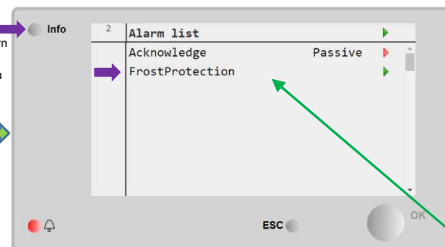
Water heater – freeze thermostat 1

1. Step – Login – 2222 (Alarms)

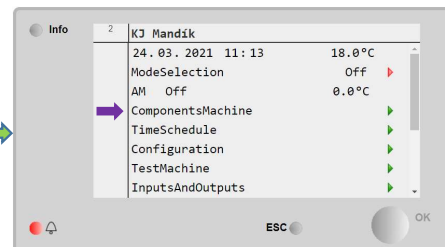


Check the alarm list, see list 3.

2. Step – Alarm list check

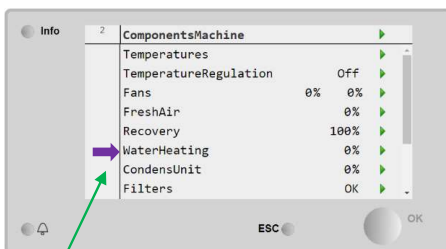


3. Step – ComponentsMachine

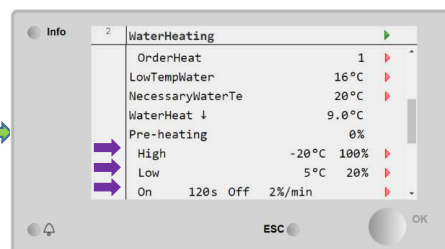


Frost protection thermostat fault

4. Step - WaterHeating



5. Step –Pre-heating setup



Failure of the frost thermostat can be caused by several factors. There may be a problem when starting the unit, see the problem when the unit is turned off. sheet 6, or problem with heating water see. sheet 7.

Description:

If a thermostat fault occurs during unit start-up, the unit preheat setting must be adjusted. To improve the preheating function at unit start, it is necessary to increase the temperature from the line "High" from -20°C to -10°C, from the line "Low" the valve opening value in% to a higher value from 20% to 40% and finally length of preheating value "On" from 120s to 180s. These changes are example, further increase might be needed. A more detailed description of this function can be found in the manual for the Climatix controller. You can find the manual at: <https://mandik.cz/getattachment/159fa25e-33fb-4046-b921-4c817850a9dc/.aspx>

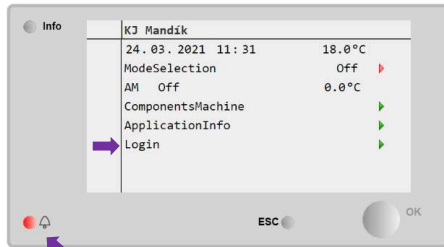


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Quick Fix

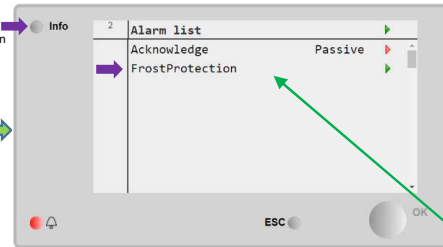
Water heater – freeze thermostat 2

1. Step – Login – 2222 (Alarms)

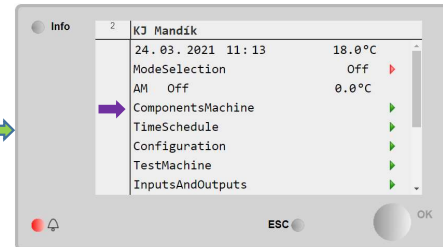


Check the alarm list, see list 3.

2. Step – Alarm list check

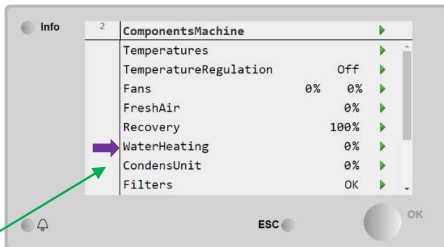


3. Step – ComponentsMachine

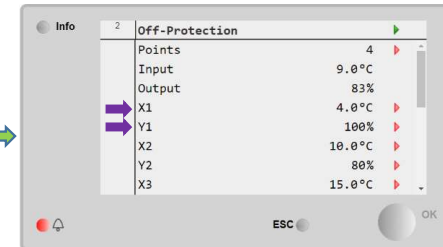
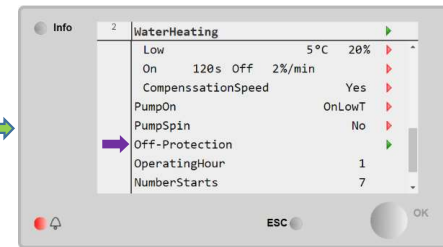


Frost protection thermostat fault

4. Step - WaterHeating



5. Step –Protection settings when the unit is switched off



Failure of the frost thermostat can be caused by several factors. There may be a problem when unit is starting up, see sheet 5, problem with the unit switched off or a problem with the heating water, see sheet 7.

Description:

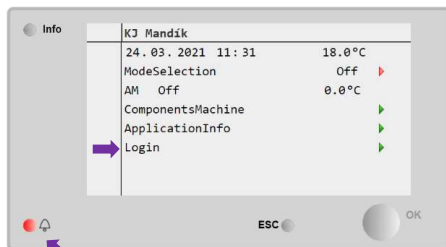
If a thermostat fault occurs when the unit is switched off, the "Off-Protection" setting must be adjusted. Four X and four Y points are used to set protection (other points are not used by default). Point X represents the heating water temperature at the return of the water heater and point Y represents the opening level of the 3-way valve in percent. The X and Y points represent an approximation of the curve showing the relationship of the heating water temperature to the valve opening when the unit is switched off. To improve the protection, the X and Y values need to be adjusted. For example: point X2 temperature will be increased from 7°C to 10°C and point Y2 the valve opening will be increased from 80% to 90%. Then the protection will start earlier and with a higher valve opening value. At higher values, the heat exchanger will heat up more when switched off, but will also need more heating water. A more detailed description of this function can be found in the Climatix controller manual, see page 5.

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Quick Fix

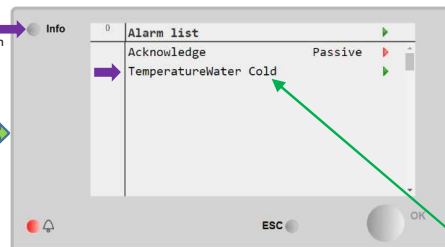
Water heater – Low heating water temperature

1. Step – Login – 2222 (Alarms)

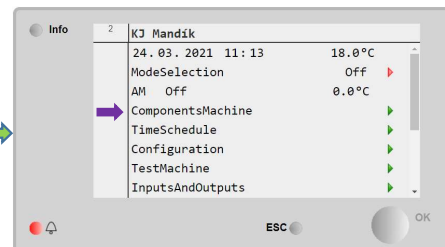


Check the alarm list, see list 3.

2. Step – Alarm list check

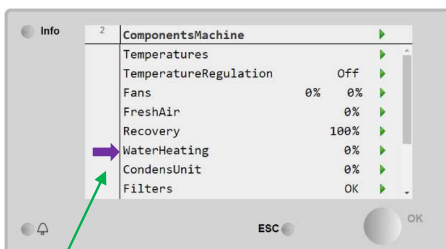


3. Step – ComponentsMachine

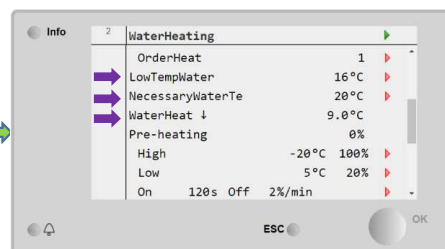


Low heating water temperature alarm

4. Step - WaterHeating



5. Step –Pre-heating setup



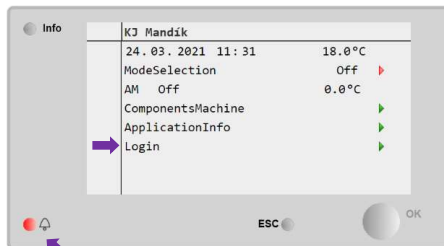
Failure of the frost thermostat can be caused by several factors. There may be a problem when starting the unit, see. sheet 5, problem with the unit switched off see. sheet 6 or a problem with the heating water.

Description:

A fault related to the low heating water temperature is in most cases related to the low heating water temperature supplied by, for example, a boiler room, water supply must be checked. The current heating water temperature can be seen on the „WaterHeat" line. The low heating water temperature can also be directly related to the thermostat failure, in this case it is also necessary to increase the heating water demand, ie. lines "LowTempWater" and „NecessaryWaterTe" from, for example, 12°C and 20°C to 15°C and 25°C. A more detailed description of this function can be found in the Climatix controller manual, see page 5.

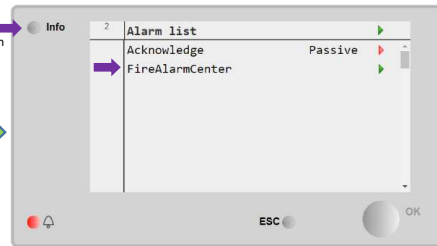
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1. Step – Login – 2222 (Alarms)

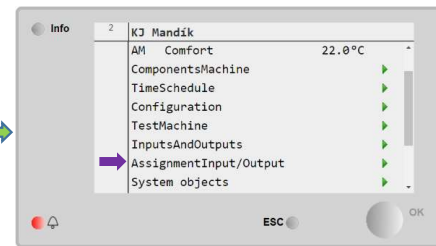


Check the alarm list, see list 3.

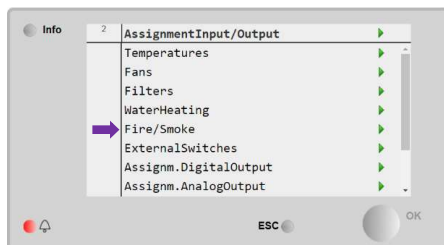
2. Step – Alarm list check



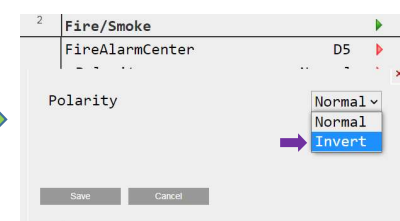
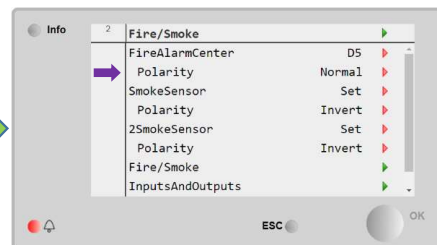
3. Step – AssignmentInput/Output



4. Step – Fire/Smoke



5. Step – Polarity - Invert



Description:

In the event that a fault from the fire central alarm appears in the list of faults, but the fire central itself is either not needed or will be connected later, it is necessary to disable its function. Disabling is performed by inverting the input for the signal from the fire central, in case the fire central will be connected in the future, it is necessary to return the polarity to the value "Normal".

Note:

In order for the fault to disappear, it is not enough just to invert its input, but it is also necessary to confirm it in the alarm list, see. sheet 3.