

ems25advanced - Troubleshooting Quick Reference

User interface



LED indicators

- 1 Saving temperature disable
- 2 Motion detection
- 3 Compressor

Buttons



Power up sequence

- 1  Checks all the display elements are working.
- 2  Displays the firmware version. (Example)
- 3  Displays the checksum. (Example)

Normal operation

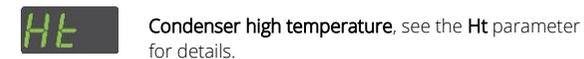
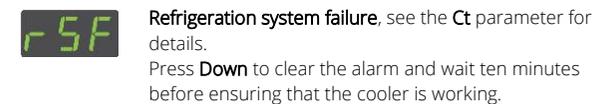
During normal operation the EMS will display one of the messages below. If one of the below messages is not displayed the EMS has registered and alarm or fault.



Alarms and troubleshooting

The EMS controller can display messages to aid fault diagnosis. If an alarm sounds and the EMS controller displays any of the alarms below, contact your service provider.

(Also see troubleshooting flow diagrams on reverse)



Cooler lights do **not** switch on
If EMS controller is in the ready mode, ensure that the light switch inside the cooler switched **on**.

Menu access

To access the menu:

1. Press and hold **Set** until PAS is displayed.
2. Enter the button sequence of the password.
 - Press **Set** four times (x4).
 - Press **Up** once (x1).
 - Press **Down** twice (x2).
 - Press **Defrost** twice (x2).
3. Ensure that PS is displayed.

Half reset

To clear the self-learning matrix and to restart the learning period:

1. Access the menu, using the password and use **Down** to scroll to the **Hr** menu.
2. Press **Set** and ensure that **PAS** is displayed
3. Re-enter the button sequence of the password:
 - Press **Set** four times (x4).
 - Press **Up** once (x1).
 - Press **Down** twice (x2).
 - Press **Defrost** twice (x2).
4. Ensure that the controller reboots.

Test routine

To test the relays, temperature sensors, and motion sensor:

1. Access the menu and press **Down** once to **tst**.
2. Press set and check display shows **888**.
3. Press **Set** and **Defrost** at the same time to start the relay test **rel**. Then:
 - Press **Up** to test the lights.
 - Press **Set** to test the compressor
4. Press **Defrost** to exit the relay test
5. Press **Set** and **Defrost** at the same time to test the analogue inputs **AnA**.
 - Press **Up** and then press **Set** to view the *appliance sensor* temperature.
 - Press **Down** to test the *door switch*; display shows **dO** for open door and **CLO** for closed door. Opening and closing the door should make the display alternate between the two.
 - Press **Defrost** to test the *condenser sensor*.
6. The display should show the current condenser temperature, or **PF2** if faulty.
7. Press **Set** and **Defrost** at the same time to test the motion detector **Pir**.
8. Press **Defrost** and then wave hand in front of the motion sensor. Check that the displayed number increases.
9. Press **Set** and **Defrost** at the same time to exit the test mode.

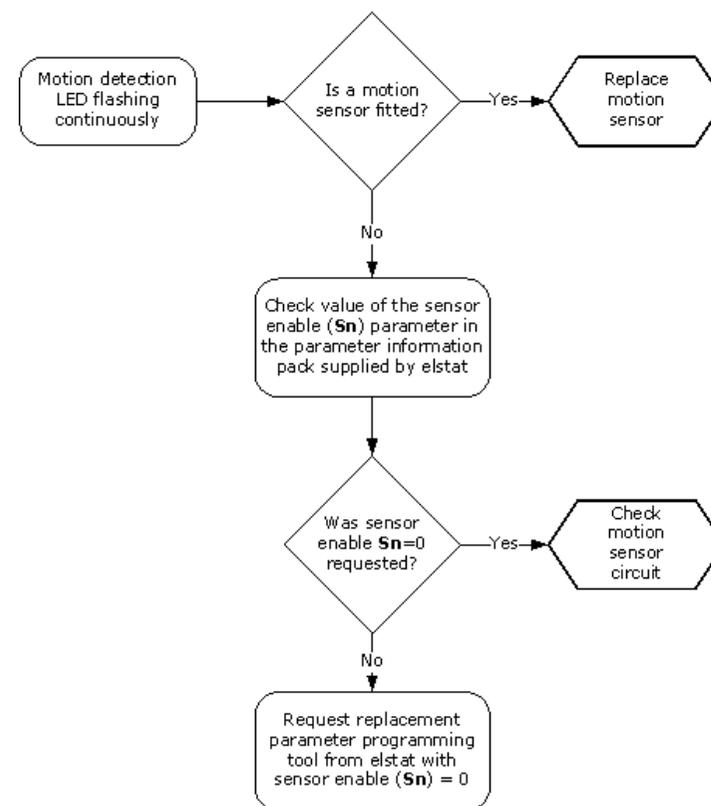
The controller then resets and displays **USE** or the *appliance sensor* temperature.

For further information, refer to the latest product documentation.

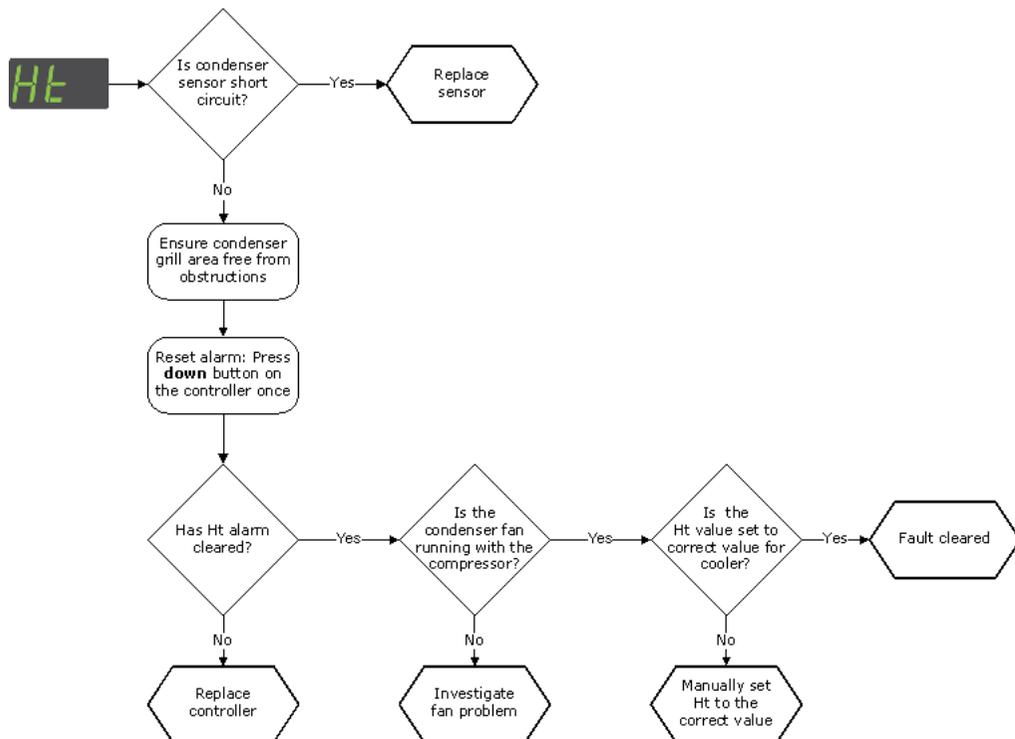
Temperature sensor alarm



Motion sensor alarm



Condenser high temperature alarm



Door open alarm

