Driver’s Guide to Simple Operation

Simple to Access
Alarm Codes

Alarm Code Descriptions

<table>
<thead>
<tr>
<th>Alarm Code</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>OL</td>
<td>Electric Motor Overload. Unit protection system during electric standby operation. If the problem persists when the unit is restarted, contact your Service Dealer.</td>
</tr>
<tr>
<td>bAt</td>
<td>Low Battery Voltage. Unit and battery protection system.</td>
</tr>
<tr>
<td>HP</td>
<td>High Pressure Alarm. Indicates that the refrigeration system will shut down in the event of excessively high pressure in the refrigerant circuit. If the problem persists when the unit is restarted, contact your Service Dealer.</td>
</tr>
<tr>
<td>LP</td>
<td>Low Pressure Alarm. Indicates that the refrigeration system will shut down in the event of excessively low pressure in the refrigerant circuit. If the problem persists when the unit is restarted, contact your Service Dealer.</td>
</tr>
<tr>
<td>PSE</td>
<td>High Pressure Sensor Failure. The high pressure sensor has become faulty or disconnected. Contact your Service Dealer.</td>
</tr>
<tr>
<td>tEP, tp4</td>
<td>Thermal protection alarm. If the problem persists when the unit is restarted, contact your Service Dealer.</td>
</tr>
<tr>
<td>dr1, dr2</td>
<td>Doors Open. This option must be activated.</td>
</tr>
<tr>
<td>tCO</td>
<td>Control Module Overheating. If the problem persists when the unit is restarted, contact your Service Dealer.</td>
</tr>
<tr>
<td>SOF</td>
<td>Software failure. Contact your Service Dealer.</td>
</tr>
<tr>
<td>P1E</td>
<td>Main or Single Cargo Box Return Air Temperature Reading Error (open circuit or short-circuit). Contact your Service Dealer.</td>
</tr>
<tr>
<td>P2E</td>
<td>Remote Cargo Box Return Air Temperature Reading Error (open circuit or short-circuit). Contact your Service Dealer.</td>
</tr>
<tr>
<td>C</td>
<td>Communications Failure. Contact your Service Dealer.</td>
</tr>
</tbody>
</table>

Clear Alarms

The alarm condition in the unit must first be corrected. After clearing the alarm condition, press and release the SELECT key to remove existing ALARM codes. The standard display will appear once the alarm codes have been cleared.

There are several options for viewing the Full Operation Manual/Instructions and Alarm Codes list pertaining to your particular unit:

1. By visiting our www.europe.thermoking.com/tools for a link to the Thermo King Alarm Codes App or TK Tutors App
2. By downloading our full range of documentation (Operation/Warranty/Conformance Certificate/Alarm Codes Leaflet). These can be downloaded from the following link: www.emea-user-manuals.thermoking.com/ or at the QR code below.
3. A printed copy of all of these can also be obtained from your Thermo King Dealer Representative.

For more information or tutorial sessions, please contact your Thermo King Service Manager.
LCD DISPLAY DESCRIPTIONS

1. Heat Symbol (Thermometer with an arrow pointing upward)
   This symbol indicates the unit is in the heat mode.
2. Cool Symbol (Thermometer with an arrow pointing downward)
   This symbol indicates the unit is in the cool mode.
3. ºC/ºF Symbol
   This symbol indicates whether the on-screen temperature reading is in degrees Centigrade or degrees Fahrenheit.
4. Alarm Symbol
   This symbol indicates an alarm fault condition has been detected by the controller.
5. Maintenance Symbol
   This symbol indicates the need to carry out maintenance to the unit.
6. Defrost Symbol
   This symbol indicates the evaporator or condenser unit is in Defrost Mode.
7. Electrical Symbol
   This symbol indicates the unit is in Electric Standby.
8. Condenser Defrost Symbol
   This symbol indicates the condenser unit is in defrost mode (turns on at the same time as defrost symbol 6).

KEYPAD DESCRIPTIONS

9. ON/OFF Key
   Is used to turn the unit ON and OFF. It is always lit except when the unit is disconnected (no power).
10. LCD Display
    Displays selected screens. It is always active and backlit except when the unit is disconnected (no power) or when the unit is connected but has been manually switched off from the In-cab Control Box. It normally displays the return air temperature (of both load compartments in bi-temperature units).
11. UP ARROW Key
    Is used to increase the setpoint temperature.
12. DOWN ARROW Key
    Is used to reduce the setpoint temperature.
13. SELECT Key (cycling arrows)
    Selects prompt screens and information screens.
14. ENTER Key (equals sign)
    Is used to enter a new command such as manual defrost, etc.
15. Buzzer
    It is energised when the vehicle battery and the electric power supply are connected simultaneously. It is also energised if the doors are opened while the refrigeration unit is running.

SIMPLE TO START

Vehicle Operation
1. Start the vehicle engine.
2. Press the ON-OFF key to prompt the unit controller.
3. Check the setpoint, and adjust if needed.

NOTE: Once the unit controller has been programmed, unit operation is fully automatic.

Electrical Standby
1. Connect the power cable to the units receptacle.
2. Turn ON the external power source.
3. Turn ON the unit controller. The Electric Standby icon will appear on the display and remain steadily lit.
4. Check the setpoint, and adjust if needed.

SIMPLE TO SET

Entering Setpoints

Press the ON-OFF key to prompt the unit controller.

SINGLE-TEMPERATURE UNITS
1. Press and release the SELECT key twice (three times in reverse cycle units), and the current Setpoint temperature and the letters SP will appear on screen.
2. Press the UP or DOWN arrow keys to select the desired Setpoint Temperature.
   Each time either of these buttons is pressed and released, the Setpoint temperature will change 1 degree.
3. Press and release the ENTER key to set the setpoint or press and release the SELECT key to set the setpoint and return to the Standard Display.

BI-TEMPERATURE UNITS
4. Main Load Compartment: Press and release the SELECT key twice, and the current Setpoint temperature in the main compartment and the letters SP will appear on screen.
5. Press the UP or DOWN arrow keys to select the desired Setpoint Temperature.
6. Press and release the ENTER key to set the setpoint or press and release the SELECT key to set the setpoint and to change to the Remote Compartment Setpoint Temperature Setting Screen.
7. Remote Load Compartment: The present Setpoint Temperature in the remote compartment and the letters SP will appear on screen.
8. Press the UP or DOWN arrow keys to select the desired Setpoint Temperature.
9. Press and release the ENTER key to set the setpoint or press and release the SELECT key to set the setpoint and return to the Standard Display.

Caution: This is a quick reference guide. Always refer to the operating manual for detailed instructions.