### 1.3 Installation

- **Panel installation with snap-in brackets.**

  - Dimensions are expressed in mm (in).

### 2.6 Settings

- **Compressor shutdown alarm**
  - If the LED is on, the compressor will be shut down.
  - Solutions: check that the POF parameter was set at 2 or to 3, the device will operate as if d8 parameter were set at 2.
- **Alarm output**
  - If the LED is on, the alarm output will be switched on.
  - If the LED is on, the alarm output will be active.
- **Compressor shut down alarm**
  - If the LED is on, the compressor will be shut down.
  - Solutions: see i0 and i1 parameters.
- **Fan LED**
  - If the LED is on, the evaporator fan will be on.
  - If the LED is on, the LED will flash.
- **Self-diagnosis**
  - **Parameter**
  - **Description**
  - **Code Meaning**
  - **MAP**
  - **CSd**
  - **COH**
  - **Pr1**
  - **Pr2**

### 3.1 Preliminary notes

- **Special warnings**
  - Make sure that no procedure is in progress; see also u2 parameter described in paragraph 4.1.
  - To lock the keyboard proceed as follows:
  - To unlock the keyboard:
- **LED locking/unlocking**
  - To lock the LED proceed as follows:
  - To unlock the LED:
- **Solutions**
  - See i0 and i1 parameters.

### 3.4 Temperature display as detected by the probes

- **Temperature display**
  - If the device is in "low consumption" mode, the display will be as detected by the probes.
  - If the POF parameter is set to 1, the word "switch-on" means the passage from "on" status to "stand-by" status.
  - If the POF parameter is set to 0, with the word "switch-off" means the passage from "on" status to "stand-by" status.

### 4.2 Setting the configuration parameters

- **Access to the procedure**
  - Make sure that no procedure is in progress.
  - Touch the "HELP" key or do not operate for 15 s.
  - The LED will show the flashing "=" for 4 s, after which the device will exit the procedure.

### 4.3 Manufacturer's settings

- **Access to the procedure**
  - Make sure that no procedure is in progress.
  - Touch the "HELP" key or do not operate for 15 s.
  - The LED will show the flashing "=" for 4 s, after which the device will exit the procedure.

### 5.1 USER INTERFACE

- **Operating statuses**
  - "on" status (the device is powered and is in use); utilities may be on or off.
  - "off" status (the device is powered but is switched off via software; utilities are off).
  - "suspended" status (the device is powered but is suspended due to software or hardware problems).

### 6.1 ERRORS

- **Type of sensor**
  - KTY 81-121.

### 6.2 ERRORS

- **Type of sensor**
  - KTY 81-121.

### 7 ERRORS

- **Type of sensor**
  - KTY 81-121.

### 2.3 Warnings for the electric control

- **Do not use electric or pneumatic screwdrivers on the electrical section.**
- **If the device has been taken from a cold to hot place, humidity could condense on its metal interior.**
- **Before powering 8 disconnect the power supply voltage, mains frequency and electric power fall within the set limits; see chapter 8.

### 3.5 Compressor operation hours

- **Parameter**
  - **Description**
  - **Code Meaning**

### 4鹽 11. From step 4. touch the **“X”** key.
- **Solution:**
  - If the POF parameter is set to 1, the device will operate as if d8 parameter were set at 2.
  - The LED will show the flashing "=" for 4 s, after which the device will exit the procedure.

### 6.2 ERRORS

- **Type of sensor**
  - KTY 81-121.

### 7 ERRORS

- **Type of sensor**
  - KTY 81-121.

### 8 ERRORS

- **Type of sensor**
  - KTY 81-121.
### Working Setpoint Configuration Parameters

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MIN</th>
<th>MAX</th>
<th>U.M.</th>
<th>DEF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>r1</td>
<td>r2</td>
<td>°C/°F (1)</td>
<td>0,0</td>
<td>working setpoint; see also r0 and r12</td>
<td></td>
</tr>
</tbody>
</table>

### Digital Inputs

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MIN</th>
<th>MAX</th>
<th>U.M.</th>
<th>DEF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>i0</td>
<td>0</td>
<td>5</td>
<td>- - - -</td>
<td>1</td>
<td>effect caused by the activation of the digital input</td>
</tr>
<tr>
<td>i1</td>
<td>0</td>
<td>9</td>
<td>- - - -</td>
<td>1</td>
<td>delay in activation of door switch after device is switched off</td>
</tr>
<tr>
<td>i2</td>
<td>0</td>
<td>9</td>
<td>- - - -</td>
<td>1</td>
<td>activate the compressor and switch off the defrost output (only if f2 = 0)</td>
</tr>
<tr>
<td>i3</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>defrost alarm switches off once maximum time limit has been reached (code &quot;def&quot;); only if f4 = 1 and in absence of evaporator probe error (code &quot;PE&quot;)</td>
</tr>
<tr>
<td>i4</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>minimum time that the compressor shall be switched on before defrost can be activated (code &quot;CS&quot;)</td>
</tr>
<tr>
<td>i5</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>maximum defrost duration; see also d2</td>
</tr>
<tr>
<td>i6</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>evaporator probe (defrost probe and probe determining the activity of the evaporator fan)</td>
</tr>
<tr>
<td>i7</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>defrost interval (defrost will be activated when the compressor has been on for time i5)</td>
</tr>
<tr>
<td>i8</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>time that must pass in absence of door switch input activations (after the device is switched off)</td>
</tr>
<tr>
<td>i9</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>the temperature of the evaporator is higher than that at which the condenser overheated during defrost (code &quot;COH&quot;); see also C5</td>
</tr>
<tr>
<td>i10</td>
<td>0</td>
<td>999</td>
<td>min</td>
<td>0</td>
<td>time that must pass in absence of door switch input activations (after the device is switched off)</td>
</tr>
<tr>
<td>i11</td>
<td>0</td>
<td>1</td>
<td>- - - -</td>
<td>0</td>
<td>defrost alarm switches off once maximum time limit has been reached (code &quot;def&quot;); only if f4 = 1 and in absence of evaporator probe error (code &quot;PE&quot;)</td>
</tr>
<tr>
<td>i12</td>
<td>0</td>
<td>99</td>
<td>- - - -</td>
<td>1</td>
<td>time that the compressor shall be switched on before defrost can be activated (code &quot;CS&quot;)</td>
</tr>
</tbody>
</table>

### Digital Outputs

<table>
<thead>
<tr>
<th>Parameter</th>
<th>MIN</th>
<th>MAX</th>
<th>U.M.</th>
<th>DEF</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>u0</td>
<td>0</td>
<td>3</td>
<td>- - - -</td>
<td>1</td>
<td>load managed by the second output</td>
</tr>
<tr>
<td>u1</td>
<td>0</td>
<td>15</td>
<td>min</td>
<td>1</td>
<td>minimum duration of the door switch input activation such that to provoke the defrost activation</td>
</tr>
<tr>
<td>u2</td>
<td>0</td>
<td>15</td>
<td>min</td>
<td>2</td>
<td>dripping duration (during dripping the compressor will remain switched off and the defrost output will remain deactivated; evaporator fan activity will depend on f2 parameter)</td>
</tr>
<tr>
<td>u3</td>
<td>0</td>
<td>15</td>
<td>min</td>
<td>2</td>
<td>defrost duration (after defrost, the compressor will remain on for the amount of time necessary to complete defrost, then the defrost activation will be deactivated)</td>
</tr>
<tr>
<td>u4</td>
<td>0</td>
<td>15</td>
<td>min</td>
<td>2</td>
<td>the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated)</td>
</tr>
<tr>
<td>u5</td>
<td>0</td>
<td>15</td>
<td>min</td>
<td>2</td>
<td>the evaporator fan will be switched off (at maximum for time i3 or until the input is deactivated)</td>
</tr>
</tbody>
</table>

### Notes

- The unit of measurement corresponds to the parameter setting for parameter P2 parameter.
- The parameter has effect even after an interruption in the power supply that occurs while the device is switched on.
- The time set by parameter P2 is counted also when the device is off.
- The differential of parameter C2 is 0.2°C/°F.
- The parameter is set at 1, the "energy saving" function and the display management will be switched off; see also f1 parameter.
- The parameter is set at 2, the "energy saving" function is always active and the display management and the device will be active all the time; see also f1 parameter.
- If parameter P4 parameter is set at 2, the device will function as if F0 parameter were set at 2.
- If parameter P4 parameter is set at 0, the pressure switch alarm will be activated; see also f4, F4 and i0 parameter.
- If parameter P4 parameter is set at 0, the mode shall never be activated.