Notes for TopTherm PLUS Units with Basic Controller

System messages via LED

<table>
<tr><th colspan="2">Alarm / error / warning</th><th>RED LED Code n.</th><th>Code description</th></tr>
<tr><td rowspan="2">Call for reset</td><td>Reset</td><td>(12)</td><td>|_|_|_|_|_|_|_|_|_|_|_|*****|_|_|_|_|_|_|_|_|_|_|_|</td></tr>
<tr><td>High pressure alarm</td><td>(0)</td><td>|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|_|</td></tr>
<tr><td rowspan="3">Sensors</td><td>Potentiometer broken or Display error</td><td>(3)</td><td>|_|_|*****|_|_|*****|_|_|*****|_|_|*****|_|_|*****</td></tr>
<tr><td>Inentemal temperature sensor broken</td><td>(4)</td><td>|_|_|_|*****|_|_|_|*****|_|_|_|*****|_|_|_|*****</td></tr>
<tr><td>Anti freeze sensor broken</td><td>(5)</td><td>|_|_|_|_|*****|_|_|_|_|*****|_|_|_|_|*****|_|_|_|_|</td></tr>
<tr><td rowspan="3">Overload</td><td>Compressor overload</td><td>(6)</td><td>|_|_|_|_|_|*****|_|_|_|_|_|*****|_|_|_|_|_|*****</td></tr>
<tr><td>Internal fan overload</td><td>(7)</td><td>|_|_|_|_|_|_|*****|_|_|_|_|_|_|*****|_|_|_|_|_|_|</td></tr>
<tr><td>External fan overload</td><td>(8)</td><td>|_|_|_|_|_|_|_|*****|_|_|_|_|_|_|_|*****</td></tr>
<tr><td rowspan="2">States</td><td>Overload mode
(high heat loss)</td><td>(9)</td><td>|_|_|_|_|_|_|_|_|*****|_|_|_|_|_|_|_|_|*****</td></tr>
<tr><td>Low heat mode
(less heat loss)</td><td>(11)</td><td>|_|_|_|_|_|_|_|_|_|_|*****|_|_|_|_|_|_|_|_|_|_|</td></tr>
<tr><td rowspan="2">Warnings (ambient conditions)</td><td>Anti-freeze alarm</td><td>(2)</td><td>|_|*****|_|*****|_|*****|_|*****|_|*****|_|*****|_|</td></tr>
<tr><td>High temperature warning</td><td>(1)</td><td>|*****|*****|*****|*****|*****|*****|*****|*****|*****|</td></tr>
<tr><td colspan="4">Legend: | = 500ms red LED on, _= 500ms red LED off, ***** = pause of 3s (red LED off)</td></tr>
</table>

Rittal is enhancing the feedback on TopTherm PLUS air conditioner models with basic controllers for faster, more thorough diagnostics. This additional feature is included at no additional charge, and is a rolling change. Units built during the 3rd quarter of 2009 in Germany and the 1st quarter of 2010 may have this additional feature.

Test mode:

Turn potentiometer to min. value. Hold the rubberized potentiometer display down while you switch the main power back on. The cooling unit will commence operation. The green LED will flash (I_II_I_II...). After approximately 5 minutes, the test mode will end, and the device will resume normal operation.

Legend: I = LED 500 ms on
_ = LED 500 ms off

During normal operation, the green LED is always on.

Temperature setting range:

The temperature setting point can be changed to between +30°C and +55°C. The factory setting is +35°C.

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