

Temperature test report



iRZ[®]
automation

FindMe
Monitoring
Device

FindMe Monitoring Device

Temperature test report



1. The purpose of testing is performance checking of FindMe monitoring devices in various temperature modes, and critical values determination.
2. Tests were conducted using the CM 70/75-80 TX climate chamber on four FindMe devices simultaneously, randomly chosen from the party. Batteries - serial 3.6V increased capacity cells. SIM-cards were not taken away from thermal area and remained inside of the devices. During testing the devices were in hibernation mode, switching into operation mode 30 minutes after setting the desired temperature.
3. Test results of FindMe monitoring devices (selection made according to the worst results value):

Temperature in chamber, °C	Device start	Connecting to server
+70	yes	yes
+60	yes	yes
+50	yes	yes
+40	yes	yes
+30	yes	yes
+20	yes	yes
+10	yes	yes
0	yes	yes
-10	yes	yes
-20	yes	yes
-30	yes	yes
-35	yes	yes
-40	yes	no stable
-45	yes	no

4. The conclusion about the temperature characteristics of the FindMe monitoring device can be made in accordance with test results:
 - a. Nominal operating temperature: $-30^{\circ}\text{C} - +70^{\circ}\text{C}$,
 - b. Maximum allowable range of operating temperature (with partial performance preservation): $-35^{\circ}\text{C} - +70^{\circ}\text{C}$. Tests at temperatures above $+70^{\circ}\text{C}$ were not concluded because of restriction of the maximum permissible operating temperature limit for the increased capacity cells batteries at $+85^{\circ}\text{C}$.

