

Test report on mechanical external factors resistance



FindMe
Monitoring
Device

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The purpose of the tests is to check FindMe monitoring device on mechanical external influencing factors resistance (vibration stability, vibration strength).

1. Tests were conducted on a vibrating table, which consists of **IMV VSH-100-1** electrodynamic vibration test device, **K2Sprint** vibration control system and **PC** (with software). Three randomly selected from the party FindMe device samples were taken for test conduction. Batteries - 3.6V serial increased capacity battery. Devices were in the "search" mode during test conduction, connecting every 2-3 minutes. According to GOST 30631-99, a group of mechanical design of the FindMe monitoring device was classified as M19 (working in motion device, repeatedly manipulated and being transported by people working in places with a noticeable vibration level and minor level of impacts). Test parameters for this group of devices are the following: the maximum acceleration amplitude is 5g with the frequency range of sinusoidal vibration of 0.5-500 Hz. The test carried out on X, Y, and Z axes with the total duration of 66 hours for each sample.
2. All samples shown stable operation with a given load. They switched on in the appointed time, registration was not lost, the reception and transmission of data was correct too. During visual inspection of the printed circuit board the soldering defects were not found also.
3. Test results can be concluded that FindMe monitoring device meets the requirements in terms of mechanical external factors resistance, which are required for devices of such class.

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