

Gerad-5 detects people (moving and motionless) with minimum amplitude of moving chest of 0.01m located behind the walls at a distance of 10 m.

Detecting people behind the wall made of:

- brick of 0.4m thickness;
- reinforced concrete of 0.2m thickness;
- masonry of 0.4m thickness;
- wood of 0.4m thickness.

Detecting people under snow:

- dry snow of up to 10m thickness;
- wet snow of 1-3m thickness.

Radar detects people behind the walls in its location from a distance of at least 10 m to the wall.

Detecting objects:

- horizontally - at least 120 °;
- vertically - at least 90 °.

Resolution:

- range - up to 0.3 m;
- horizontal field of view - up to 15 °.

Time of detecting a motionless person from the moment he/she appeared in the field of vision is up to 10 seconds.

Power supply: built-in rechargeable battery (voltage from 10 to 15 V) or an external power source.

The device is operational under the exposure of the following factors:

- minimum operating temperature - minus 20 ° C;
- minimum temperature limit - minus 40 ° C
- maximum operating temperature - plus 40 ° C
- maximum temperature limit - plus 60 ° C;
- multiple mechanical shocks (15g - 30000 strokes, 35g - 4000 strokes);
- drop in a standard package on a concrete floor from the height of 0.75 m.

Time to prepare Radar for use is up to 1 min.

Continuous autonomous operation of the Radar is at least 2 hours, with an external power supply at least 8 hours.

Reliability limit values:

- MTBF (mean time between failures) - at least 3000 hours;
- average repair time - up to 120 minutes;
- average lifetime - at least 10000 hours;
- average operating lifetime - at least 8 years.

Other characteristics:

- Battery capacity: 13 A·h
- Current consumption: 1.84 A·h
- Battery life in operation mode: 6 h