

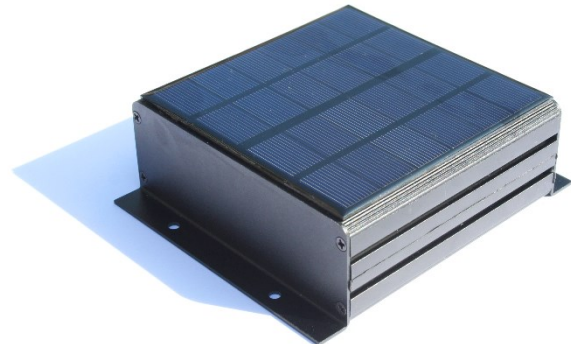
Overview

The Floopp IoT Centre is a flexible, autonomous and plug & play solution to collect sensor data. Powered by solar panel and rechargeable li-ion battery it should work 10+ years in the field. A three-axis inclinometer and accelerometer are included. The solution is easily expandable with extra sensors and can be used for structural health monitoring. In outside environments the box comes with an integrated GPS tracker, making installation and setup efforts minimal.

The data is transferred via our secure NB-IoT network. The data is stored in the cloud and/or can be send directly to the recipient.

Features

- 3-axis (XYZ) inclinometer
- 3-axis (XYZ) accelerometer
- Angle output resolution of 0.0055°
- Acceleration measurement frequency 70Hz
- Operating temperature -15°C... +45°C
- Ultra-low 0.001°/√Hz noise density
- Measurement every 15min
- Solar panel powered
- Or 5V external powered
- IP67 casing
- 122 x 146 x 47 mm (l x w x h)
- Mounting holes
- Predicted lifetime of 10 years



Expandable

- Temperature
- Humidity
- Strain sensing
 - optical fibre
 - up to 30 FBG sensors
 - 1 – 100 Hz
 - Precision of 2µm
 - Electromagnet immunity
- Power consumption
- ... (possibilities are endless)