

Monitoring Snow Load on Power Lines with IOTSU® IMPACT Solution

IOTSU® IMPACT N12 enables monitoring snow load on powerlines by measuring the exact angle of the device installed on the line. The angle changes as the snow load increases, allowing the need for snow removal to be estimated. The solution can be used to predict maintenance, reduce unnecessary maintenance and increase the reliability of the grid.

Solution Features:

- Device measures the exact angle and the change in the angle indicates the amount of snow load.
- Snow removal can be scheduled according to actual needs.
- Suitable for overhead lines and other similar electrical infrastructures.



Measuring:	Device's angle sensor monitors tilt
Operating logic:	The change of an angle indicates snow load
Sensor type:	Accelerometer (inclinometer)
Enclosing:	Suitable for outdoor usage
Network connection:	Wireless NB-IoT network

IOTSU® IMPACT N12 solution can be extended with additional services. We deliver complete package with Ready-to-go solution if needed. See next page for additional services.





Company: Small Data Garden Oy
Product name: IOTSU® IMPACT N12
Rev: 1.2b_14thApr 2025

Expand Your Solution with Additional Services:

Real time Remote Monitoring and Alerts

Measurement data can be analysed and visualised clearly with IOTSU® Cloud solution in real time. Web based service operates without software installation. The service provides graphs and history data and with ability to set alarm thresholds and control commands. You can create new users and reports from a selected period.



Reliable and Secure Connection in Elisa's Network

Our solution operates with the IoT-connection provided by Elisa which guarantees reliable and secure data transmission. Elisa's network has extensive coverage across Finland and is suitable for demanding needs.. In addition, Elisa's has broad international network of roaming partners in Sweden and other countries.



Pre-configured Device Solution

We can configure devices to your exact requirements with the measuring heads, cables and SIM cards installed and with settings programmed at our factory. This will significantly speed up deployment and reduce installation work at the site.



Need all this Ready to Go?

Choose Ready-to-go package where device, connection and visualisation create seamless package. You don't need to worry about configuring, installing or connecting. We provide whole solution ready for use.