

measure bulletin

Newsletter for the customers of Labkotec Oy

February 2023

Atmospheric icing conditions on communication masts and towers

Rime icing and freezing rain are of concern to the radio and television broadcasting masts. The icing fall can be a source of numerous problems for life and surrounding property, as well as structural fatigue of construction.

Our approach

Labkotec ice detection and warning light systems are backed by quality and experience.

The purpose of the system is to protect people and property in the vicinity and provide a warning in an early stage of atmospheric conditions.

Value to customer

- Peace of mind for mast owners
- Stops ice fall accidents before they happen
- Most sold system for ice detection
- Quality assured; the company is ISO 9001 and ISO 14001 compliant

Labkotec solution

The system includes the LID-3300IP detector, a base station and the requisite number of different kind of substations.

Function

The base station transmits alarms from the ice detector to the substations wirelessly. The warning lights of the substations blink until the ice alarm is deactivated.



The LID-3300IP Type 2 Ice Detector

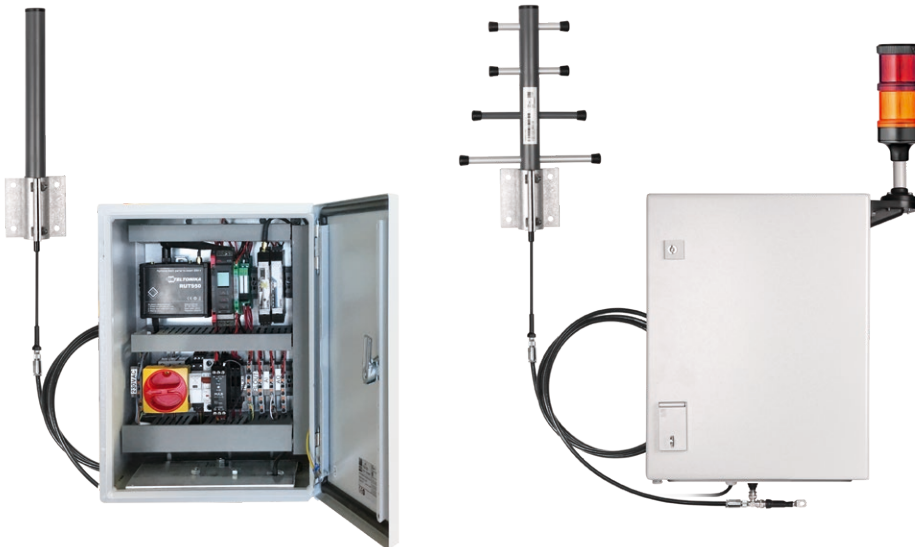
- Maintenance free
- Withstands northern conditions
- Remote monitoring system available, www.labkonet.com
- Ready to use after installation, no calibration needed
- Event log for ice alarms and faults
- Parameter settings, system checking via ethernet TCP/IP
- Built in lightning protection



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Expandability

The system grows according to your needs



Base station – BASE

The base station wirelessly transmits the ice warnings to the warning lights. The radio modem system enables the easy creation of point-to-point and point-to-multipoint systems and extensive mesh network covering up to 99 stations. The modem is using licence-free 869 MHz frequency band.

Sub station – SUB

The substation warns when the base station sends an ice alarm. The ice warning activates the red beacon light.

LabkoNet compatible

The LID-3300IP Ice Detectors can be connected to the cloud based LabkoNet system. LabkoNet is an easy and reliable way to transfer and control alarm data.

For further information on LabkoNet and its key benefits, please visit www.labkonet.com

Process steps

- On-site survey
- Preparation of a radio network plan: the number and location of warning lights, special requirements
- Coverage area and topography
- Commissioning and training



Measures for a better tomorrow

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