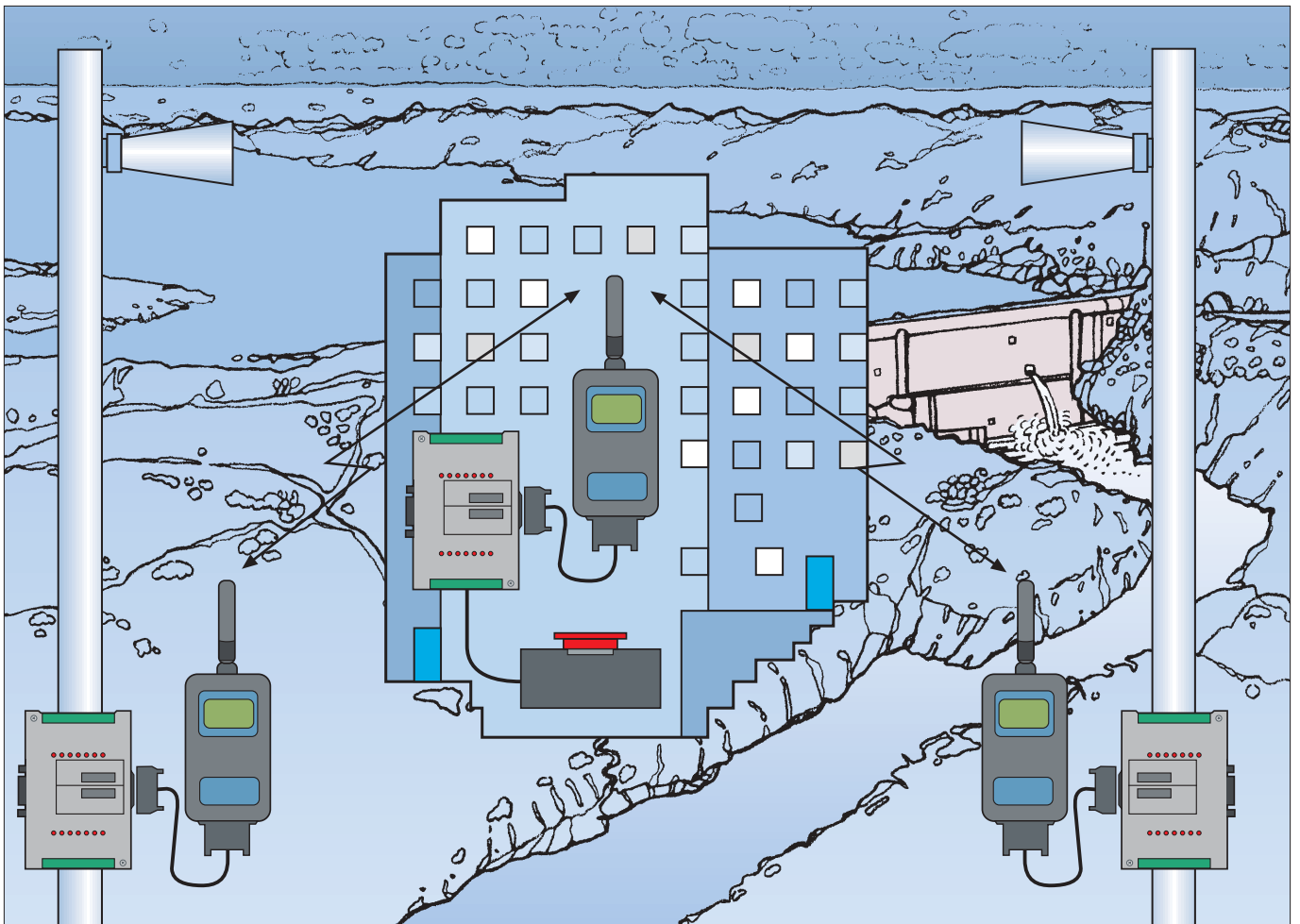




Water Release Warning System



At hydropower stations, water level of the reservoir is subject to strict monitoring and control. Excess water is at times released through the bypass channel, for various reasons. In order to avoid accidents, it is customary to warn the public by sounding sirens before the release.

Meriadoc is a Swedish company specialising in wireless transfer of data and signals. The company has recently supplied for the Graninge Graft hydropower station a wireless warning system, based on the SATEL remote control equipment.

Before starting the water release, the two sirens located in the neighbourhood of the reservoir are activated by a control signal created by pressing a button at the base station. The signal is transmitted to the site by means of SATELLINE-3AS radio modems.

A SATEL I-LINK 100 I/O Converter connected to the SATELLINE is used to trigger the siren alarm. The I-LINK 100 simultaneously sends a confirmation of the alarm through the SATELLINE back to the base station.

Remote control of isolated objects

There are no power lines available in the area where the alarm sirens are located. The batteries providing the energy are charged by means of solar panels. For the monitoring of their charge level, a measuring signal is transferred to the base station through the SATELLINE-3AS radio modem.



The combination of the SATELLINE and I-LINK 100 facilitates a wide range of remote control actions. At Graninge Kraft, the application is being extended to include remote control of certain operational manoeuvres. An additional siren was installed as well.



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