OTT Pluvio^2

Expansion of the basic meteorological network in Hungary

Background

For a development project on the Hungarian hydrometrical network operated by the Hungarian Meteorological Service (OMSZ), 141 new meteorological stations were to be installed country-wide in Hungary.

The requirements of the OMSZ were on the highest level, as meteorological measurements in the changeable climate in the Carpathian Basin with liquid and solid precipitation are a challenging task. The annual average of precipitation is about 500-700 mm, some months the precipitation may be zero.

During the preparatory phase the OMSZ did a market research and finally it was the OTT Pluvio^2 which convinced them.

Measuring Task

- Reliable monitoring of precise data at 141 sites situated in all parts of the country
- High accuracy even for very low amounts of precipitation => OMSZ specification: weighing principle, no tipping buckets
- Instruments have to be compatible with the existing telemetry systems

Monitoring Solution

Before the installation of the sites, the OMSZ tested all instruments in their own laboratory. For this purpose, two Pluvio^2 units were delivered within a very short time. As al stations had to work on the traditional communication network, the Pluvio^2 units were delivered as sensors only. Thanks to the variety of outputs it was easy to find a system integrator who supplied dataloggers for the complete system.

Summary

After one year of successful testing the OMSZ took over the new network and even ordered another 15 units of OTT Pluvio^2. Today, 60% of all meteorological stations in Hungary are using the Pluvio^2 and OTT Hydromet has become the exclusive supplier for all kinds of precipitation gauges in Hungary.

More information on OTT solutions and products:
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