Environmental Monitoring

Champorcher Valley

Background

In the field of advanced environmental monitoring, the collection of pluviometric data is essential for climate analysis, water management and the prevention of extreme events. In many cases, it is necessary to install monitoring stations even in remote areas without access to electrical power or wired connections.

The solution

The pluviometric monitoring system has been implemented by InGeoLab using Capetti Elettronica's ***WineCap ™*** dataloggers, together with an electronic rain gauge. The integration with the BOX-PPS, equipped with a photovoltaic panel, enables autonomous operation in any environmental condition, even in the absence of grid power. The modular configuration allows the wireless monitoring system to integrate with various sensors for climate monitoring: the IP65 thermo-hygrometric sensor, equipped with a meteorological shield, for temperature and relative humidity measurement; the anemometer for wind speed and direction detection; the solarimeter for measuring solar radiation.

The result

The implementation of the ***WineCap ™*** system ensures continuous and reliable monitoring of environmental parameters, providing real-time data for meteorological studies, water resource management and hydrogeological risk prevention.
The wireless solution represents a significant advancement in smart environmental monitoring, with a strong focus on sustainability and technological innovation.

InGeoLab

WSD12-2DI

Capetti ELETTRONICA DAL 1973

The winning choice WineCap

- ✓ WSD12-2DI (2-channel datalogger)
- ✓ PL200 (rain gauge with pulse output)
- ✓ BOX-PPS (photovoltaic power supply kit)