

GPRS Datalogger

Modular Datalogger for long-term monitoring with GPRS module for remote data management



Data logger unit for geotechnical, structural and environmental monitoring. It is the main component of the system, used to **acquire and transmit data** from the various sensors and to transmit them autonomously to a server through the **integrated GPRS modem**.

The server receives the data, processes them and makes them available on the web platform accessible by the user through userID and password. Access to the system takes place with a normal internet browser and **does not require any installation on the PC**.

The following functions are **available directly on the WEB portal:**

- Reading of the requested variables
- Graphical trend of the measures
- Export of data in various formats
- Alarm management
- Storage of alarm events

Main features

- No software installation required
- Possibility of simultaneously managing different types of sensors
- Possibility of power supply with photovoltaic panel
- Transmission of alarms via SMS or email

Applications

- Monitoring landslides
- Geotechnical and structural monitoring
- Monitoring of tunnels, dams, bridges and viaducts
- Automated alarm management

Technical features:

No. of analogue inputs	Main board with 4 inputs (expandable with modules of 4 or 8 inputs each)
Type of analog inputs	4-20 mA, 0-5 Volt, mV/V
Risolution	12 or 16 bit
Digital inputs	N. 2 (counters or pulse counter)
Accuracy	<0.1% F.S. or <0.02% F.S.
Power supply	2-24 Vdc with 7Ah buffer battery
Output	n. 2 relays for activating external devices (traffic light, siren, etc.)
Interface	RS485 for connecting the expansions
Environmental conditions	Temperature: -20 ... + 70 ° C – relative humidity: 5 ... 95%
Modem	Integrated quad-band GPRS
Container	IP65 polyester cabinet

Accessories

- 4 or 8 channel expansions
- 220 Vac mains power supply
- Photovoltaic panel
- External and / or amplified reception antenna