NB IOT-WSN DATA ACQUISITION SYSTEM
Self-powered data acquisition system with WSN technology

NB-IoT module with WSN technology for long-term monitoring. Self-powered and modular low consumption data transmission system; allows you to detect data from various types of sensors, and transmit them autonomously to the server via 4G/NB-IoT/LoRa/radio data connection, using the integrated SIM CARD. The data is sent to the web platform accessible by the user through a username and password. The system is directly accessible via a browser and does not involve any installation.

ADVANTAGES:

- No software required;
- Autonomous modules with integrated SIM card
- Compatibility with the most widespread geotechnical instruments on the market;
- Long battery life;
- IP66 protection degree;
- Transmission of alarms via SMS and e-mail.

FUNCTIONALITIES AVAILABLE ON THE WEB:

- Reading of the required variables;
- Display of measurements in graphic format;
- Export of data in different formats;
- Alarm management;
- Storage of alarm events

APPLICATIONS:

- Structural and geotechnical monitoring;
- Monitoring of landslides;
- Water monitoring (surface and underground);
- Monitoring of springs, reservoirs and aqueducts.

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TECHNICAL FEATURES:

- Analog inputs: from 1 to 4 (20mA, 5V);
- Resolution: 16 bit;
- Accuracy: <0.05% F.S.
- Power supply: long duration lithium battery;
- Power consumption: 30 mA (stand-by mode); 50 mA (transmission mode);
- Sizes: 130 x 150 mm
- Environmental conditions: temperature: -20 to +70°C; relative humidity: 30 to 95 %;
- Modem: integrated with internal antenna;
- NB-IoT WSN technology;
- Protection: plastic IP67;
- Fixing: on wall or pole (through a mounting bracket to be ordered separately).

ACCESSORIES:

Standard:
- NB-IoT WSN transmission module
- Cables and sensors

Optionals:
- Backup battey
- Pole fixing collars
- Amplified receiving antenna