

ROCKFALL BARRIER ALARM SYSTEM

Description

This innovative system involves the installation of a low-power data acquisition unit on one of the two end pylons of the rockfall barrier. It is powered by a photovoltaic panel and a backup battery, sized to ensure operation even during the winter months and minimize maintenance. A chain of accelerometers extends from the unit and is attached to the upper steel cable with special collars, positioned approximately in the center of each panel.

These accelerometers are connected in series by a single cable tied to the same upper cable. The accelerometers have an RS485 digital output and can be connected in series with up to 20 sensors. The accelerometers are always in sleep mode (low power) until they detect an impact from a boulder or debris flow which, causing a configurable threshold to be exceeded, wakes up the accelerometer and the control unit which immediately sends an alarm email to one or more email addresses and/or an SMS to one or more mobile numbers.

The control unit is also equipped with a camera pointed at the rockfall barrier, which, in the event of an alarm, takes an image and sends it to a dedicated portal. Using the credentials provided, the user can access this portal and view in real time, in addition to a wide range of information about the monitoring system (battery voltage, history of acquired values, alarm history, etc.), the event recording in graphic format and the image sent by the camera.



Technical features

Sensors	Triaxial MEMS
Signal	Digital RS485
Modem switchboard	4G
Antenna	stylus
Supply	20W photovoltaic panel
Backup battery	12 V - 12 Ah
Operating temperature	-20...+55 °C
Alarms	via SMS and/or email
Container	IP65 cabinet

For more information:

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