

DS826

ALF System (Landslide alert)



Description

The ALF system (Landslide Alarm) mod. DS826 is an autonomous system, designed to give a quick response to the monitoring of surface landslides. The system, which is very simple to install and manage, is able to provide an alarm for real time event.

In case of need, the system can be quickly and easily moved from one point to another. The system is battery powered and can be further equipped with a photovoltaic panel, installed at the top of the mounting pole.

The system consists of a multiturn rotary displacement sensor, with a maximum development wheel of 2000mm, a data acquisition unit and a GSM modem. The sensor, the data acquisition unit and the modem are placed in the same container. A Kevlar or invar wire is stretched between two points, where on one side it is fixed to a pole, using a special bracket, while on the other, it is slid around the wheel and held by ballast. In this way the wire can be stretched for distances up to 40 meters. For the assembly it is sufficient to anchor two piles in the ground at the desired distance and successively install it, with the appropriate supplied brackets: the sensor, its corresponding counter and stretch the wire.

The alarm can be triggered:

- by SMS messages
- Locally, by activating a siren, flasher, traffic light, etc.
- by activating remote devices (e.g. traffic light for road block), radio or modem with I / O inputs (MDS-ADV model)

In order to activate a local alarm, it is required a relay board.

Applications

Monitoring of settlements of rock or terrain surfaces, tunnels, dams, etc.



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Technical features

Sensor		DS826-FS*
Type		Potentiometer
Range		From 100 to 2000 mm in 100 mm steps
Supply / Output		2.5Vcc / 2400mV
Linearity		± 0.1 %FS
Repeatability		<0.01%
Operating temperature		-30 ÷ +80 °C
Protection		IP65

Material	Wheel	Stainless Steel
	Box	Reinforced polyester with fiberglass

Acquisition System Unit		MYLOG***
Alarm level		1
Scan rate		Programmable from 1min to 24hrs
Memory rate		Programmable from 1min to 24hrs
Consumption		20mA for reading 120mA with modem in communication

GSM modem		MDS-BSE****
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Accessories

Wall mounting bracket	DS825- MWWL
Pole mounting bracket	DS825 - MWBM
Invar wire	DS825- WRIN-MM**
Kevlar wire	DS825- WRKV-MM**
4-20 mA converter	DS825 -BEMA
Stainless steel mounting pole (1" x 3mt)	DS825 -PLIN
Photovoltaic panel	DS826-PN-FV
Alarm board with Test and Reset buttons	DS826-SC-AL
Radio board	DS826-RD
GSM modem with alarm	MDS-ADV

*FS Indicate the range

**MM Indicate the length

*** For further information about the technical features see the technical sheet of the data acquisition unit MYLOG

**** For further information about the technical features see the technical sheet of the modem mod. MDS-BSE