MAIN FIELDS OF APPLICATION

- Geotechnical engineering
- Hydrology
- Meteorology

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GS8 is 1, 4 and 8 channel datalogger designed for reliable unattended monitoring up to 8 vibrating wire sensors and their associated thermistors.

The GS is a battery-powered data logger, designed for remote monitoring.
Available as single channel, four channels or eight channels logger and suitable for up to 8 vibrating wire sensors and their thermistors.

GS8 datalogger can be configured by means of the special free software, called GS8, via USB, using the text files with the extension *.geocal.

The file with extension *.geocal manages the calibration data of vibrating wire sensors. These files can be created manually, inserting the sensors' calibration data.

All the .geocal files can be imported and exported in GS8 in order to manage the readings from each connected sensor.

GS8 was designed to allow a customer to use the software even when the logger is not connected.

This function consents to insert and save the data in .geocal format and download it to the logger whenever you need.

The GS8 dataloggers can be put in stand-by mode, switching the acquisition status to "OFF".
When the logger is connected you can easily see its status in the lower right hand corner of the window. It can be useful when the data registration is not required for long periods.

Depending on different monitoring needs the data sampling rate can be set in 4 different modes.
This feature allows to preserve the battery life and simplifies the data processing.
Once you connect the GS8 datalogger, all the configuration information of the sensors and logger is visualized by the sof-

tware, so it is possible to download data in engineering units of measure.

GS8 has the "APPEND DATA FUNCTION" that allows to add new data in queue to already existing file otherwise to create another file, if required.

The logger also has the function "REAL TIME READINGS", which means real-time data acquisition and the visualization of the status of connected sensors.

Instruments

compatible with multiplexer channels:
- VW instruments
- VW Extensimeters
- VW Piezometers
- VW Load Cells
- NTC Thermistors
- Hydrological instruments (VW Piezometers)

General Characteristics

MODEL	GS8-1C	GS8-4C	GS8-8C
Channels	1VW + 1NTC	4 VW + 4 NTC	8VW + 8 NTC

Vibrating wire

Excitation	0 - 5V
Range	260 to 4800 Hz
Resolution	0.10 Hz
Accuracy	0.01% Full Scale

Thermistor NTC

Range	1000 to 64000 Ohm
Resolution	<4 ohm
Accuracy (25 ºC)	0.3 ºC

Communication

Port	Mini B USB
Software	GS8
Onwards	Windows XP

Data storage

	GS8-1C	GS8-4C	GS8-8C
Memory	8MB		
Readings	GS8-1C	GS8-4C	GS8-8C
--------	up to 279,000	up to 135,000	up to 83,000
On memory full	Overwrite old data or stop		
Reading interval	sec/min/hr/day/month/year		
Time format	Day/month/year;	hr/min/sec	

Power

	GS8-1C	GS8-4C	GS8-8C
Voltage	3-7Vdc		
Battery	GS8-1C	GS8-4C	GS8-8C
Standard battery	4 x AA Alkaline	4 x Alkaline C	4 x Alkaline C
Battery life	>8 years/8 mem. fill	>5 years/4 mem. fills	>5 years/3 memory fills

Enclosure

	GS8-1C	GS8-4C	GS8-8C
Material	Cast aluminium		
Dimensions	160 x 100 x 80mm		
Rating	IP66		
Weight	GS8-1C	GS8-4C	GS8-8C
(with battery)	1032g	1280g	1368g
(without battery)	932g	998g	1086g