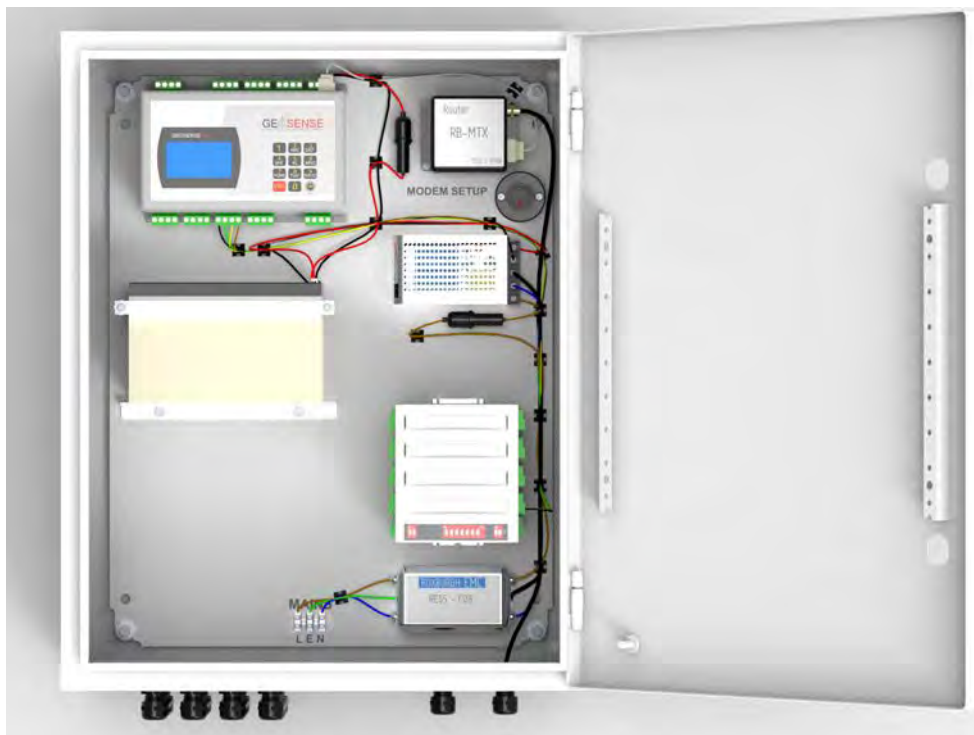


GeoLogger G8-Plus

Built around the easy-to-use G8 control module which has been purpose-designed for geotechnical applications. It offers reliable remote monitoring under demanding geotechnical conditions



GeoLogger G8-Plus



Overview



The Geosense® Geollogger G8-Plus is built around the easy-to-use G8 control module which has been purpose-designed for geotechnical applications. It offers reliable remote monitoring under demanding geotechnical conditions.

The power management system features different power modes, including ultra-low power which enables it to be powered by battery for periods in excess of 12 months.

Functions include sensor measurement, time-keeping, data storage, control and alarm notification.

The G8-Plus series of data loggers are capable of monitoring all types of sensors including vibrating wire, strain gauge, MEMS (analogue & digital), thermistor, linear potentiometer etc.

As monitoring requirements vary widely, final configuration of the data logger system will depend on the type, number and sampling interval of measurements required. Each Geosense G8-Plus is pre-assembled, pre-tested and the logger module pre-configured prior to delivery.

The factory-set configuration can be easily changed on site by using the keypad to select from a series of menu commands, without the need for any complex programming.

Designed to be mounted in the field, the G8-Plus is housed in a robust water-resistant IP66 enclosure to provide maximum protection under the harshest environments.

APPLICATIONS

Remote data logging of geotechnical & structural instrumentation in:

Dams

Tunnels

Deep excavations

Buildings

Bridges

FEATURES

No software programming

Easily re-configured

Tailored to your individual requirements

Large LCD display

Rugged construction

In-built lightning protection (TVS)

12 button keypad

Ultra-low power consumption



GeoLogger G8-Plus

Specifications

LOGGER MODULE

Supply	110/220Vac, 12Vdc, solar panel
Current supply	30µA in standby
Digital Local Inputs	2 Channels, Trigger / Pulse counter / Frequency
Local Analog Inputs	2 Channels, 4-20mA / 0-3Vdc / 0-10Vdc
Digital Local Outputs	2 Alarm, Relay contact max 24VAC/DC 3A
Communication ports	1 x Ethernet, 2 x RS-485, 2 x RS-232, 1 x Dust Network
User Interface	128 x 64 backlit LCD display - 12 buttons keypad
Internal clock	3V lithium battery TIMEKEEPER
Memory	8GB SD card, USB memory-stick
Sampling period preset	1/59min. - 1/23h - 1/10days
Data acquisition	SD card, USB, GPRS/UMTS, ethernet (FTP)
Download data period settings	1/59min. - 1/23h - 1/10days
Number of stored acquisitions	Greater than 2.000.000 in the maximum configuration
Read/written data frequency	1MHz
Operating temperature	-20 to +70°C
Protection	IP66
Dimensions	400 x 450 x 210 mm

MULTIPLEXER

Channel numbers	4+4, 8+8, 12+12, 16+16 (or any combination)
Total multiplexers that can be linked	Up to 256
Total channels	32 for MUX, max 16,320 channels
Inputs	VW, V, mV/V, 4-20mA, Pt100, NTC, RS-485
Resolution	24 Bit V, mV/V, 4-20mA, Pt100, NTC 0.1Hz
Supply voltage	+20V, +12V, ± 12V, +5V
Communication	RS-485, Dust network
Operating temperature	-20 to + 70°C



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