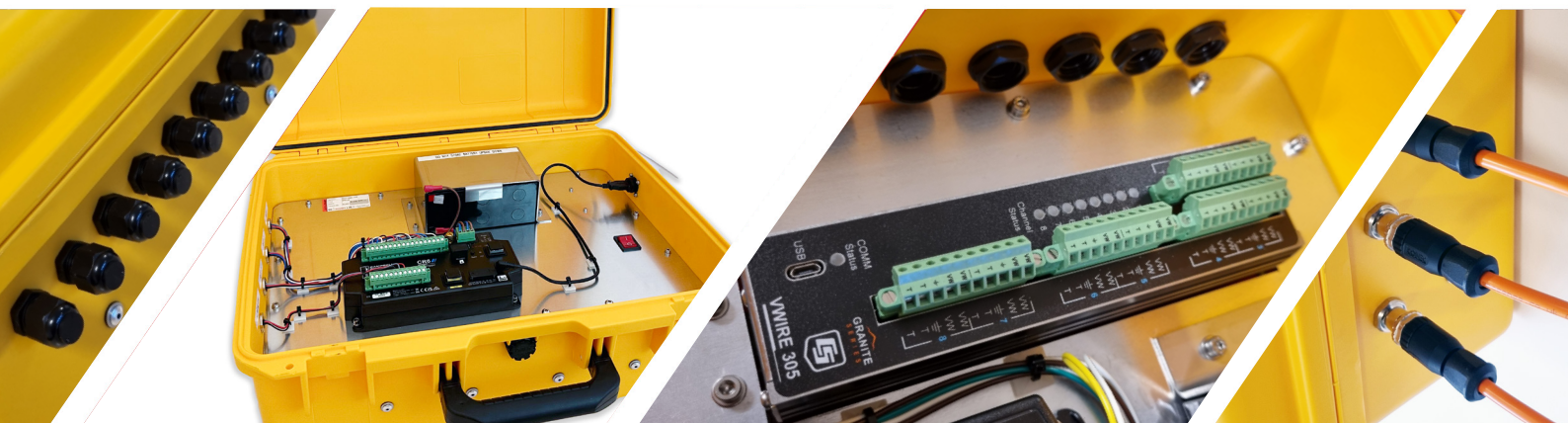# Peli® Case GeoLogger CR Series

Built around the Campbell Scientific CR350 & CR6 control modules and housed within a rugged Storm Peli® Case with internal re-chargeable battery

GEOSENSE

Peli® Case GeoLogger CR Series

Overview

The Geosense Peli® Case GeoLogger CR Series is built around the Campbell Scientific CR350 and CR6 control modules and housed within a rugged Storm Peli® Case with internal re-chargeable battery suitable for harsh applications such as packer, pump and pile testing.

Functions include calibration inputs, sensor measurement, timekeeping, data reduction and data storage which can be visualised via LoggerNet software on a dashboard for easy interpretation during tests.

Geosense Peli® Case GeoLogger CR Series is capable of monitoring all types of sensors with vibrating wire, analogue and digital outputs.

The requirement for monitoring varies widely depending on the project and the final configuration will depend on the type and number of sensors required. Each Geosense Peli® Case GeoLogger CR Series is pre-assembled, pre-wired, pre-tested and pre-programmed prior to delivery meaning quick and easy set up and use on site

APPLICATIONS

Packer testing

Pumping tests

Pile testing

FEATURES

Software with Dashboard for flow and pressure

Quick connections or hard wiring for sensors

Multiple VW, analogue, digital inputs

Internal re-chargeable battery

Modem option available

Dynamic option available

Rugged construction with Peli® Lifetime Guarantee

Push-button latches

Rubber 'O-ring' seal

Two padlock hasps

IP67 rated protection

Low power consumption

Wide operating temperature range

Dynamic vibrating wire option available

Low power consumption

Peli® Case GeoLogger CR Series

Specifications

Listed are the main components of a Peli® Case GeoLogger CR Series. The choice of components will depend on the individual project. Please contact Geosense for product selection.

CENTRAL PROCESSING UNIT (CPU)

All the components are linked to the CPU. The CR350 and CR6 have a fully programmable controller with non-volatile memory and battery backed clock.

INTERFACES

Depending on the model and quantity of sensors additional interfaces may be required.

MULTIPLEXERS

A relay mechanism controlled by the CPU to switch between multiple sensors so they can be monitored by a single CPU. Allows multi sensors to be fed into the measurement & control module.

POWER SUPPLY

Internal re-chargeable 12 volt DC battery.

COMMUNICATION

Local - USB A to USB A
Remote – 4G LTE modem

BAROMETER

For compensation due to changes in barometric pressure for sensors used for pressure monitoring.

ENCLOSURE

Houses all the above components mounted, prewired and pre-programed in a robust IP67 Peli® Case enclosure.

SOFTWARE

Used to support programming, communication, and data retrieval between data loggers and a PC. It allows the monitoring interval of the sensors to be set at defined times and configured to customer requirements including bespoke Dash boards. System requirement - Windows 11, 10, 8, or 7 (Both 32- and 64-bit operating systems are supported.)
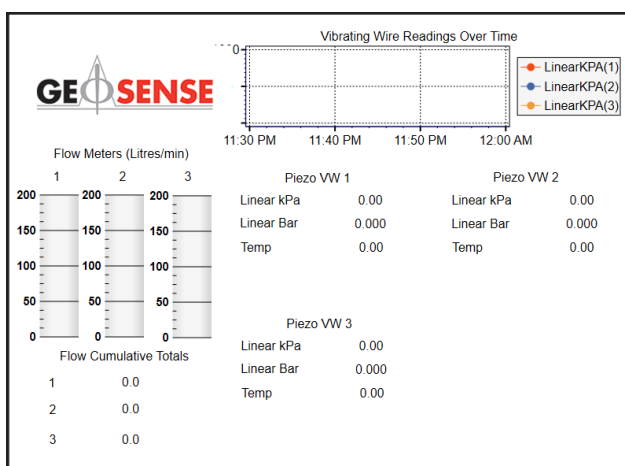
Software dashboard can be designed to meet individual customer requirements, example shown.

Peli® Case GeoLogger CR Series

Specifications

MODEL	PCGL-CR350	PCGL-CR6
Central processing unit	CR350	CR6
Sensor input types	VW, mV/V, 4-20mA, Pt100, NTC, RS-485, pulse	VW, mV/V, 4-20mA, Pt100, NTC, RS-485, pulse
Sensor inputs*		
VW inputs	1-10	1-10
Analogue inputs	1-10	1-10
RS-485 inputs	2 strings (up to 40 sensors)	2 strings (up to 40 sensors)
Pulse counter inputs	8	16
Data storage	30 MB	72 MB
Power supply	12V rechargeable battery	12V rechargeable battery
Standby current	1.5mA	<1mA
VW interface	AVW200	Integral
Maximum scan rate	10 Hz	1000 Hz**
Sensor expansion	Multiplexer (Static)	Multiplexer (Static & dynamic)
Digital interface	RS-485 to RS-232	Integral
Communication	USBA, 4G LTE modem	USBA, 4G LTE modem
ADC	24-bit	24-bit
Clock accuracy	±3 min. per year	±3 min. per year
Temperature range	-40° to +70°C	-40° to+70°C
Control software	LoggerNet	LoggerNet
Cabinet dimensions***	538 x 406 x 211mm	538 x 406 x 211mm
Enclosure rating	IP67	IP67

* Input signals can be mixed but are limited by physical size of the Peli Case. Contact Geosense for advice on maximum number of inputs.
** Based on dynamic model
*** Based on IM2600 Storm Case. Other dimensions may be required depending on specification.

GE SENSE

HEAD OFFICE

Nova House
Rougham Industrial Estate
Rougham, Bury St Edmunds
Suffolk IP30 9ND
England

+44 (0)1359 270457
sales@geosense.com
support@geosense.com

NORTH AMERICA OFFICE

15 West 38th Street
Suite 632
New York
NY 10018

+1 518-920-3483
sales@geosense.com
support@geosense.com

www.geosense.com