

CDL



## — CDL DATALOGGERS

READOUT UNITS  
AND DATALOGGERS





## CDL DATALOGGERS

CDL is a family line of durable, water resistant easy-to-use portable readout which includes Galileo and New Leonardo dataloggers.

They are equipped with an high performance microprocessor, Ni-MH batteries and color graphic display.

New Leonardo datalogger is compatible with all types of Sisgeo's sensors. Galileo is designed for use with vibrating wire instruments.

Multiple-readings through multiplexer box and switch measuring boxes are supported.

### FEATURES

- Compatible with all sensors
- Large coloured display
- Accurate and precise measurements
- Splash-proof hand-held case
- Bluetooth module for smartphone connection

### BENEFITS

- Lightweight and portable
- Reads both electrical and engineering units
- Auto shutdown
- Live up-date for firmware and software
- Sunlight reliable display



Meet the essential requirements of the EMC Directive 2004/108/EC

## TECHNICAL SPECIFICATIONS

	DATALOGGER NEW LEONARDO (PRODUCT CODE 0CDL400N0000)	DATALOGGER GALILEO (PRODUCT CODE 0CDL100VW00)
Channels	2	2
A/D converter	2x24 bit with autocalibration (19 true bit)	2x24 bit with autocalibration (19 true bit)
Digital display	TFT graphic backlight LCD 320 x 240 pixel, 5.7"; sunlight reliable	TFT graphic backlight LCD 320 x 240 pixel, 5.7"; sunlight reliable
Type of measure	mA, mV, V, mV/V, Hz, $\mu$ sec, digit, $\mu$ $\epsilon$ , °C (PT100 and thermistors)	Hz, $\mu$ sec, digit, $\mu$ $\epsilon$ , °C (thermistors)
Measuring range	4-20 mA, $\pm$ 10 mV, $\pm$ 400 mV, $\pm$ 5 V, 1000 Ohm (PT-100) 10000 Ohm (thermistors), from 400 to 6000 Hz	10000 Ohm (thermistors) from 400 to 6000 Hz
Measurement resolution	1 $\mu$ A at FS 20 mA - 1 $\mu$ V at FS $\pm$ 10 mV 10 $\mu$ V at FS $\pm$ 400 mV - 100 $\mu$ V at FS $\pm$ 5 V 0.001 mV/V at FS 10 mV/V - 0.1°C at FS 1000 Ohm 0.1°C at FS 10000 Ohm - 0.1 Hz at FS 400-6000 Hz	0.1 Hz at FS 400-6000 Hz 0.1°C at FS 10000 Ohm
Measurement accuracy	0.01% FS (0.1% FS for PT100 and NTC)	0.01% FS (0.1% FS for NTC)
Thermal drift	0.001% FS / °C	0.001% FS / °C
Internal battery	12 V DC, 4500 mAh Ni-MH, with protections	12 V DC, 4500 mAh Ni-MH, with protections
Operating time	8 hours (always power-on)	8 hours (always power-on)
Battery charger	fast charge (2.5h), 100-240 V AC, 50-60 Hz, 35W	fast charge (2.5h), 100-240 V AC, 50-60 Hz, 35W
Sensor supply	Fully automated power supply selection	Fully automated power supply selection 100
Input impedance	> 10 MW for voltage <2.5V > 1 MW for voltage >2.5V	-
Maximum sensor output current	190 mA	100 mA
Temperature range	-20°C a +60°C	20°C +60°C
Storage memory	2 GB*	2 GB*
COMM port	USB 2.0, Bluetooth optional (0CDL0BTOOTH)	USB 2.0, Bluetooth optional (0CDL0BTOOTH)
Enclosure	ABS, IP67 protection	ABS, IP67 protection
Dimensions and weight	200 x 280 x 76 mm, 2 kg	200 x 280 x 76 mm, 2 kg



\* Readings are stored in an internal SD card and the stored data can be fast and easily transmitted to a host PC by USB cable.

The storage memory of dataloggers works like an Hard Disk: data is organized in a "site"; in each site there are the installed instruments and for each instrument the Client can store and download data, sorted by date and time.

## ITEMS INCLUDED

### CARRYING CASE OCDLOBAG927

Carrying bag and red customized case for easy operation at site



### CD-ROM

Smart Manager Suite package and user manual



### SENSOR CABLE OECAV7P6A00

Jumper cable with 6 alligator clips



### USB CABLE

PC communication cable

### BATTERY CHARGER OECAB12VNMNB

100-240V AC/12V DC battery charger

## ACCESSORIES

### SWITCH BOX CABLE OECAV07V2000

Jumper cable for switch measuring box

### ADDITIONAL POWER SUPPLY OCDL012EXBP

12V external power supply package for T-REX probe and DEX extensometers

### MULTIPLEXER CABLE OECAV10MUX0

Jumper cable for direct connection to multiplexer measuring boxes



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### ADDITIONAL SUPPORT

SISGEO offers on-line assistance service to the Customers in order to maximize the performance of the system and training on the correct use of the instrument/readout.

For more information contact mail: [assistance@sisgeo.com](mailto:assistance@sisgeo.com)