



Albillia

field fluorimeters for the hydrogeology

Three available data loggers for the FL24 and/or FL30 fluorimeter probe

Please note that only one probe can be connected at a time to the data logger. However a PC can be used as data logger for several probes. For this, you need a USB to multiple RS232 interface. Several instances of the FLUO program can run and collect the data of several probes.

1. Data logger with *Controlord Gigalog S* microcontroller. One microSD 2 GB-card. LCD display on 2x16 char. USB interface. Full DOS file system, sampling rate from 2 seconds to 15 minutes, and optics selection by rotating switches. Waterproof casing in cast-Al.
 - a. Pros: File system on modern flash cards, display of mV and ppb data, GPRS option.
 - b. Cons: Requires strict humidity control with desiccant bag (silicagel). Higher current consumption: one 12V 7Ah battery for 3 to 4 weeks.
 - c. Recommended for: General use, stream gauging





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2. Same as (2) but the electronic circuit is protected in a polyamid box with transparent lid for reading the LCD. This box is protected in a Peli case along with one or 2 batteries. The user is not supposed to open the internal box. The content of the flash card is downloaded in a few seconds through the USB interface. The rotating switches are replaced by 2 push buttons.
- a. Pros: Better protection against humidity and water damages
 - b. Cons: Needs a laptop for data download
 - c. Recommended for: General use, stream gauging, high condensing humidity.





3. The TRMC™-5 is a battery powered datalogger with 4G interface, especially designed for scientific field applications

- 2 digital output controlled remotely or through alarms (for sampler,...)
- 5 current analog inputs, 4-20mA
- 3 voltage analog inputs, 2x 0-3V, 1x 0-5V
- Compatible EN 13757-4, mode T1 (Wireless M-Bus), 868 MHz
- Option : Interface for FL-30 or FL-24 field fluorometers
- Option : interface for WTW Cond340i and WTW Cond197i conductivity meters, with galvanic insulation
- Data communication in 4G. 2G or 3G available on request
- Automatic data transfer to the server
- Internal memory for 100'000 measurements
- Operates with a simple 12V battery (to be ordered separately)
- Optional solar panel for enhanced autonomy
- Ultra low power consumption, several months, even several years of autonomy
- 2 independant pulse counters

The TRMC™-5 was specially designed for scientific and industrial applications. It is the ideal tool for a continuous monitoring of springs, rivers or facilities.

The TRMC™-5 possesses the characteristics which will allow you to set up a successful, affordable and open network of telemetry.



TRMC-5 datalogger



Battery (12V 7 Ah)

Link : https://www.tetraedre.com/product_view.php?product_id=1

Previous models

Data logger with one 2GB-Compact Flash card, no display, RS232 interface, sampling rate from 2 seconds to 15 minutes plus external rate, and optics selection by rotating switches. Waterproof casing in cast-Al.

- a. Pros: Small sensitivity to humidity, small current consumption (one 12V 7Ah battery lasts several months), easy interface for PC with COM ports.
- b. Cons: Basic file system (only one file on the CF), no LCD display, no GPRS option.
- c. Recommended for: Long-lasting tracer tests, speleology



Datalogger for older models FL03 / FL10 / FL20

Data logger with *Controlord Gigalog S* microcontroller. Two microSD 2-4 GB-cards. LCD display on 2x16 char. USB interface, 24-bit ADC. Full DOS file system, sampling rate from 2 seconds to 15 minutes (2, 5, 10, 30, 60 seconds, 2, 5, 15 minutes). The 2 or 3 channels can be sampled up to the fastest rate. Pelican waterproof casing hosting one 12V 7 Ah battery. The Fischer connector (10 pins) is fully compatible with the above probes.