FL200

ON-LINE:
■ CHLOROPHYLL A
■ HYDROCARBONS IN WATER
■ FLUORESCENT TRACERS

- Mixed use: portable or fixed installations
- Built-in sampling pump and battery
- Measurement within 5 seconds
- Low maintenance and operating costs
- Compact size

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Based on UV or visible fluorescence, a wide range of applications can be covered by the FL200 depending on the optical head used:

- FL200-C: Chlorophyll A
- FL200-H: PAH (Poly Aromatic Hydrocarbons) in water (BTEX, phenol, oil, fuel)
- FL200-R: Rhodamine
- FL200-F: Fluorescein

Using a high sensitivity photomultiplier, the FL200 can measure very low concentrations in the ppb range.

MAIN APPLICATIONS

Chlorophyll A:
- River, lake, reservoir surveys
- Drinking water treatment plants
- Fish farms

PAH:
- River surveys
- Ground water control cleansing
- Drinking water treatment plants
- Cooling water survey

Fluorescent tracers:
- Ground water contaminant studies for chemical plants
- Flow calibration of water treatment plants
- Flow measurement in streams.

VERY LOW OPERATING COSTS

The UV spectroscopy measuring principle requires no chemical reagent or calibration solutions resulting in very low operating and maintenance costs.

AUTOMATIC CLEANING SYSTEM

A fully automated cleaning system prevents the measurement flow cell from becoming dirty, giving the analyser autonomy for several weeks without maintenance.
The cleaning solution (5% sulphuric acid or detergent) should be renewed once a month.

This system is more reliable than falling-stream flow cells or insitu probes.

BUILT-IN PERISTALTIC PUMP

When the water is not pressurised (rivers, effluents, sewage), a peristaltic pump can be added to the analyser. It is synchronized with the measurements to increase the lifetime of the tubes.

BATTERY/MAINS POWER SUPPLY

For field measurements or isolated sites, a 12V built-in battery can make the analyser autonomous for about 100 measurements.

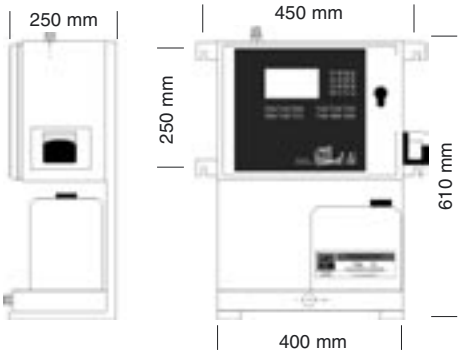
For plant applications, the battery provides total immunity against mains disturbances or power cuts, even over a long period.

BUILT-IN DATALOGGER

The measurements are dated and stored in a static memory with a capacity of more than 10,000 measurements.
They can be tranferred later via the RS232 port on a PC without specific software using Hyperterminal® of Windows®.
The data are compatible with standard worksheets, particularly Excel® to obtain graphs easily.

GRAPHIC DISPLAY

Measurements can be displayed on the graphic screen showing all data obtained during one hour, one day, one week, one month or one year.
During the measurement cycle, a moving synoptic shows the operation sequence.



Range:	FL200-C: 0 - 300 µg/l Chl A FL200-H: 0 - 10 mg/l Phenol equiv. FL200-R: 0 - 1000 ppb Rhodamine FL200-F: 0 - 1000 ppb Fluorescein
Repeatability FL200-C:	+/- 0.3 µg/l Chl A typical
Repeatability FL200-H:	+/- 3 µg/l Phenol equiv. typical
Repeatability FL200-R:	+/- 0.03 ppb Rhodamine typical
Repeatability FL200-F:	+/- 0.03 ppb Fluorescein typical
Initial calibration:	+/- 2% typical
Sample input/output:	Stainless steel fitting for plastic tube external Ø 12 mm
Pressure:	Maximum 5 Bar
Flow:	0 - 5 L/mn, typical 0.5 L/mn
Sample temperature:	> 0°C - 50°C
Outputs:	4-20 mA insulated,12 bit resolution High and low threshold relays
Communication:	Port 1: RS232 for PC or modem or MODBUS, Port 2: RS232 for on-line printer
Power supply:	110-120V / 220-240V 50/60 Hz 30VA + built-in 12V battery
Casing:	Watertight IP559 Ambient temperature: > 0°C - 60°C
Weight:	13 Kg /18 Kg without/with cleaning system
Standards:	CE Conformity - EN50081-2, EN50082-2, EN55011
Optional:	■ Peristaltic sampling pump ■ Measurement remote command ■ EC measurement ■ pH measurement ■ Modem board

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