



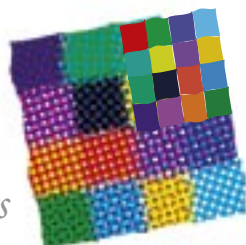
# FL200

## 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:

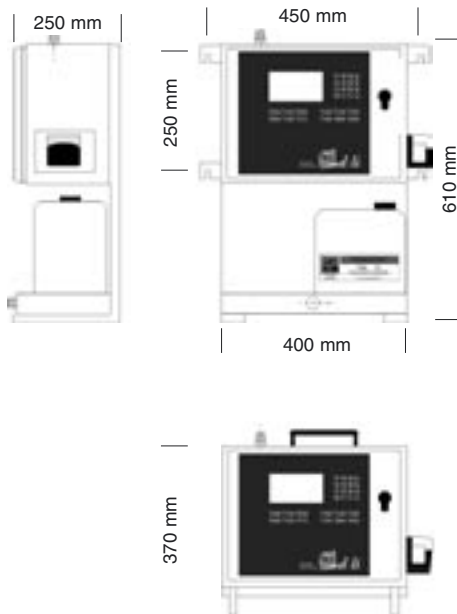
- River, lake, reservoir surveys
- Drinking water treatment plants
- Fish farms

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 transferred 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

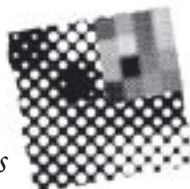
#### Standards:

CE Conformity - EN50081-2, EN50082-2, EN55011

#### Optional:

- Peristaltic sampling pump
- Measurement remote command
- EC measurement
- pH measurement
- Modem board

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