

## OUR INNOVATIVE TECHNOLOGY

TRAQUA develops and produces its own compact and innovative in-situ measuring equipment.

The STREAM® fluorometer/turbidimeter allows a direct, high-resolution measurement of fluorescence, turbidity, and water temperature.

The small size and weight of the equipment enables a quick and easy installation in the field (natural sites, wells, pipelines, cave systems).

STREAM® fluorometers are autonomous and do not require an external datalogger or power source, which allows the equipment to be installed in almost any location.

TRAQUA's strength lies in the ability to rapidly deploy a vast monitoring network. This network makes it possible to respond quickly and precisely to a large number of flow issues.

We also offer our fluorometers for rent to experts and scientists in the domain of water quality and monitoring.

### TECHNICAL SPECIFICATIONS

<b>Size</b>	Ø 60 mm x 230 mm
<b>Weight</b>	1,25 Kg
<b>Housing</b>	Anodized aluminium, polycarbonate window
<b>Depth rating</b>	<b>- 1000 m (100 bar)</b>
<b>Connection</b>	USB (battery recharge) Wi-Fi (configuration, data transfer)
<b>Autonomy (internal battery)</b>	> 30.000 measurements ✓ 20 days at 1 measurement/minute ✓ 7 months 1 measurement/10 minutes
<b>Internal data-logger</b>	microSD
<b>Timestep</b>	1 – 60 minutes

### PARAMETERS

#### FLUORESCENT TRACERS

<b>Fluorescein</b>	Resolution: 0.06-0.09 ppb Measuring range: 0- 3000 ppb
<b>Other dyes</b>	Sulforhodamine B, Amino-g acid
<b>Turbidity</b>	0.08 – 1000 NTU
<b>Water temperature</b>	Resolution: 0.06°C / -55°C to +125°C
<b>Parameters on request</b>	Dissolved organic matter, hydrocarbons
<b>Suspended matter</b>	0-10 grams/liter

**DO YOU WISH ADVICE OR  
INFORMATION ON OUR  
PRODUCTS AND SERVICES?  
CONTACT OUR TEAM**

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The logo for TRAQUA, featuring the word "TRAQUA" in a bold, dark blue sans-serif font. A stylized, multi-colored swoosh (in shades of blue and green) curves around the letters from the bottom left to the top right.

[WWW.TRAQUA.BE](http://WWW.TRAQUA.BE)



## EXPERT IN HYDROLOGICAL AND HYDROGEOLOGICAL MONITORING

TRAQUA is specialized in techniques for water flow characterisation. We offer **innovative technological solutions** and customized expertise to hydrogeological or hydrological inquiries (analysis, diagnosis, monitoring)

Dye tracing, water network diagnostics |  
In-situ monitoring of water resources |  
Hydrogeological expertise and consulting |



## PROTECTING WATER RESOURCES IS OUR PROFESSION

TRAQUA combines the development of an **innovative technology** with **expertise in hydrogeology** to provide targeted solutions to problems related to (ground, surface, distribution, waste) water flows.

We implement tailored in-situ monitoring based on an analysis with high temporal and spatial resolution. The continuous sampling of data such as fluorescence, turbidity and water temperature provide useful information about your problem to obtain a detailed analysis, scientific diagnosis and resolution.

TRAQUA can provide unique technology and expertise for a range of applications related to hydraulic connectivity, flow and groundwater characterization, vulnerability of water resources, water quality monitoring, and much more.

## OUR DOMAINS



### 1. NATURAL WATER FLOWS AND THE ENVIRONMENT

- Dye tracing, delimitation of recharge areas, vulnerability and prevention studies.

- Hydrodynamic characterization of water flows (travel time, speed).
- Diagnosis of contamination: origins and impacts.
- High-resolution monitoring in wells, piezometers, rivers, lakes, and the marine environment.
- Qualitative monitoring of water resources (turbidity, suspended matter, organic matter, temperature).



### 2. WATER DISTRIBUTION OR COLLECTION NETWORKS

- Network diagnostics (distribution, drainage, or sewers systems): connections, travel time, flow efficiency, leak detection, malfunction assessment.
- Hydrodynamic analysis by dye tracing.
- Qualitative monitoring of water with high temporal and spatial resolution (turbidity, suspended matter, temperature).



### 3. INDUSTRY, MINES, AND QUARRIES

- Water supply analysis.
- Impact of pumping or dewatering in engineering, mining, or construction activities.
- Contamination risk assessment, diagnostics, vulnerability studies, leak detection.
- Monitoring of wastewater or mining discharge.
- Efficiency study of industrial or water treatment processes.