

THE FLUIDION MICROBIOLOGY (E.COLI) ANALYZER

The industry's only fully-automated in-situ microbiology lab!

fluidion introduces the latest remotely-controlled autonomous E.Coli analyzer for source water and environmental monitoring, with seven measurement capability on a single battery charge. Installed in-situ, it provides the fastest possible response to E.Coli contamination, quantifies bacterial content and provides automatic alerts in real-time.

A fully-automated in-situ microbiology lab

The Microbiology Analyzer from *fluidion* is a unique system capable of automatic contamination-free sample collection in-situ, reagent mixing and incubation, optical detection (multispectral absorbance and fluorescence), bacterial quantification and wireless data transmission.

On-demand remote analysis in any aquatic environment

The analyzer can be used for quantifying E. coli presence in lakes, rivers, coastal water, catchment sites or in water treatment plants. It can float on water (e.g. attached to a structure or buoy), or be installed in a facility, and can operate in the harshest environments and under the most unforgiving weather conditions.

The system can be remotely controlled from a cell phone or a web interface (optional), and data is supplied to the operator wirelessly – full water quality monitoring at the click of a mouse!

A reliable response

The Microbiology Analyzer provides a quantified response in terms of CFU/100 mL present in the sampled water, with confidence intervals. The system is controlled by a vacuum pump sampling module and *fluidion's* microfluidic technology, which ensures consistent, uncontaminated sampling and measurements every time.

Enjoy the fluidion approach to microbiology!

TECHNICAL SPECIFICATIONS

Dimensions	<i>L : 40 cm, D : 25 cm</i>	Total measurements	7
Weight	7 kg	Response time	1 h-12 h
Measurement trigger	<i>On-demand, pre-program, inline sensor (optional)</i>	Environmental conditions	0 °C - 40 °C
Measurement range	4 CFU - 10 ⁶ CFU/100 mL	Communication	<i>GSM/GPRS, USB, secure web interface (optional)</i>
Body materials	<i>PMMA, PVC, Acetal, SST 316L</i>	Antenna	<i>Internal</i>
Battery type	<i>Li Ion</i>	Autonomy	<i>2 weeks to 2 years depending on operational mode</i>

fluidion is a high-technology company that designs and manufactures innovative sample collection and chemical/microbiological in-line analysis instruments for water quality monitoring and environmental applications. The core technology relies on *fluidion's* proprietary patented MEMS and microfluidic systems.

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