

FLUIDION® RAPID SAMPLER RS-14V

A compact, robust and remotely-controlled surface sampling system

The FLUIDION RS-14V instrument is a remotely-controlled surface sampling system for ocean sciences, limnology research, source water testing and environmental monitoring. With a robust design, it allows uncontaminated sampling in surface waters in challenging conditions, by simple SMS text message from a mobile phone.



Water sampling on-demand

The RS-14V system collects samples (14 bottles) using an internal vacuum pump, and is capable of operating in harsh environments and under the most unforgiving weather conditions. The sampler is highly resilient, resists shocks and severe outdoor exposure, and can float like a buoy and collect samples unattended. It can be used near shore, attached to a buoy, or deployed from a vessel, and can be triggered on demand from a mobile phone through a simple text message. It can easily be pre-programmed from a mobile phone or computer USB port to acquire time-series samples, or to use automatic triggering with external sensors (optional). It is a reliable sampling workhorse for the most diverse applications: spill monitoring, storm sampling, tidal events, phytoplankton blooms, and microbiological research.

Sampling campaigns, simplified

The Rapid Sampler only requires simple maintenance in the field. With exceptional battery autonomy, the RS-14V system can be deployed for extended periods of time – from 6 weeks to 6 months, so the logistic complexity of sampling operations can be drastically reduced.

Independently-certified sampling accuracy

The RS-14V system is controlled by Fluidion's patented technology using an internal vacuum pump. For each sample, a unique sampling path and a one-way check-valve ensure consistent, uncontaminated sampling every time, as well as sample isolation post-sampling. Validated by independent laboratories, samples taken with RS-14V are equivalent to the standardized manual sampling performed by a trained technician.

The RS-14V system is certified through the European Environmental Technology Verification Program (VN20180030). ETV is a validation of environmental technology performance by qualified third parties based on analytical lab test using regulated protocols or specific requirements. (Verified parameters: DOC, organophosphate, E. coli, Enterococci)

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

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TECHNICAL SPECIFICATIONS

Dimensions	<i>L: 92 cm (36"), D: 25cm (10")</i>	Number of samples	14
Weight	<i>15kg (33 lbs)</i>	Sample volume	250 mL (standard)
Sample trigger	<i>On-demand, pre-program, inline sensor (optional)</i>	Container	<i>Glass, plastic (optional)</i>
Inline sensor	<i>Optional, different sensors available</i>	Communication	<i>GSM/GPRS, USB, secure web interface (optional)</i>
Body materials	<i>PMMA, PVC, Acetal, SST 316L, glass</i>	Antenna	<i>Internal (surface) External (optional)</i>
Battery type	<i>Internal Li-Ion rechargeable</i>	Autonomy	<i>6 weeks to 6 months depending on operational mode</i>

RS-14V mobile phone and web interface



The RS-14V system uses a wireless communication protocol based on the cellular network for both system configuration and data management. The system can be fully configured from a mobile phone using intuitive SMS-based commands. Communication is established via the cellular network. In case there is no cell coverage in the installation area, the system can be pre-configured from a PC via the USB interface.

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