



WaterTrack

Online Water Monitoring Station

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DESCRIPTION

WaterTrack Online Water Monitoring Station is designed for continuous monitoring of the specific activity content of Cs-137 and/or other radioactive elements in Bq/l in running water. Utilizing a high-sensitivity scintillator, it enables real-time detection and quantification of radioactive elements in liquids. The system is ideal for environmental surveillance, industrial discharge monitoring, and water treatment facilities, offering low detection limits and precise measurements. Its robust design ensures consistent performance in diverse conditions, while user-friendly interfaces simplify operation and data analysis.

The biggest advantage of the WaterTrack Online Water Monitoring Station is that it does not require stopping the water supply for sampling. Water analysis is performed in real time. This is especially critical when monitoring drinking water. The WaterTrack Online Water Monitoring Station operates without the need for an on-site operator, and measurement results can be accessed remotely via a dedicated software package — RAVEN. Data transmission is carried out using the Modbus/TCP protocol.

The station can function as a standalone unit or be integrated into a network of similar stations designed for continuous monitoring of water and air. A central web-based software package, RAVEN, is available to connect all WaterTrack Online Water Monitoring Stations into a centralized measurement network.

FEATURES

- Sealed metal cabinet with pipes for connecting to the water supply system, including a stainless steel tank with a capacity >15 liters
- 5 cm lead shield installed around the tank
- Ø2x2" scintillation detector Srl₂(Eu) with <3.5% energy resolution installed inside the tank with (NaI(Tl), CeBr₃ – optionally)
- 4096 channels MCA for gamma spectrometry
- Evaluation of measurement results according to ISO 11929
- Automatic stabilization of gamma spectrometric channel with K-40 peak
- Continuous self-testing procedures with an alarm signal and messages

ONBOARD SOFTWARE MAIN FUNCTIONS

- Measurement of specific activity, dead time, count rate, etc.
- Background measurement
- Measurement of the flow of pumped water
- Measurement database
- Measurement log
- Graphic and tabular presentation of measurement results with the ability to select data for a period
- Large nuclide library

Parameter	Value
Gamma energy range	from 0.08 to 3 MeV
Gamma concentration measuring range	from 0.5 to 10 ⁶ Bq/m ³
Total number of identified radionuclides	15 (adjustable)
Maximum flow rate	up to 50 l/min
Maximum pressure	up to 10 bar
Operational temperature	from 0 to +50°C
Dimensions	600 x 820 x 1680 m