

# Chemical, Biological and Radiation Sensors Robust Water Safety Monitor

**Model Series - MiniTect-H20 | MiniTect-H20-SC (Suitcase) and  
MiniTect-H20-BP (Backpack)**

## Problem

Water sources are vulnerable to many risks of accidental or intentional contamination by individuals, groups, industry, medical labs and hospitals, terrorist, naturally occurring radioactive materials (NORM) and residual treatment additives.

The majority of water sources for populous communities are from surface water: reservoirs, lakes, rivers, etc., all of which can be easily contaminated. Water districts and wastewater facilities have not had the option of a robust real-time monitor for radionuclides. Only individual monitors for specific chemical and biological contaminants have been available.

This lack of a comprehensive, robust detection monitor has seriously hampered the development of an Online Contaminant Monitoring System (OSMS), needed to protect the nation's water.

## Solution

The MiniTect Series combines several detection goals into one monitor.

The MiniTect Series continuously monitors radionuclides using both ion exchange resin beads and particulate filter.

Chloride, TOC, and Nitrogen are monitored with detectors integrated within the MiniTect Series system. Additional monitoring is available and will be tailored to specific needs on request.

Electronics are accessible via USB port with data download at testing site to PC or Tablet.

MEASUREMENT	SENSITIVITY	TOP OF RANGE	SENSOR	MAINTENANCE	COMMENTS
FLOW	0.5% of Reading	0.06 gpm – 2 gpm	Volumetric Flow	None	10 - 36 VDC Input
TEMPERATURE	0.15	32 - 1000 F	RTD	Periodic Calibration	10 - 36 VDC Input
PRESSURE	0.2% Full Range	0-60 psi	Ceramic Diaphragm	None	10 - 36 VDC Input

- **Standard:** 100 to 1,000 ml/minute
- **Optional:** Wide range of flow rates available
- **Sample Temperature:** Up to 80° F liquid- standard (Optional to 115° F)
- **Ambient Temperature:** 35 - 100 ° F
- **Optional:** Cooler model Cool-33 is used in case of higher sample or ambient temperatures.

### Electronics

- **Internal Electronics:** USB port
- **Data Down Load:** PC or Tablet (User choice)



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