

# Dual Radon Detectors and Radon Expel Water and Gas System and Monitor

## Model – Rn-EX-DET

### Application **Many applications including:**

- To measure Radon in the air within an aquatic ecosystem environment.
- For measurement of Radon in water.

### Situation Exposure to Radon is harmful and has been found to cause cancer.

- Radon enters ground water, surface water, wells, and drinking water from rocks and minerals naturally occurring in the ground.
- Radon entering water is a natural process and happens everywhere.
- The Radon that enters water sources as a result of earthquakes, mining, or fracking which exacerbates this natural process releasing much more harmful Radon than naturally occurring.

### Solution

#### STEP 1 To avoid and reduce harm.

- 1.1 Locate the source of the Radon in water.
- 1.2 Measure Radon content.

#### STEP 2 Stop using water from that source.

- 2.1 Ideally, seal leaks from Uranium or Radon source leaking into water.
- 2.2 Install suitably sized Radon Expel / Removal system for water system.

### Description The RnCAM Radon Air Monitor is detachable from the system and can be used as a portable RnCAM Air Monitor with either AC/DC power.

**AIR:** Radon Gas is detected by the RnCAM Radon Air Monitor. It includes an ultra-sensitive electrometer and an ion chamber for detection and measurement of airborne Radon.

**TIMING:** The user sets the standard deviation and low range of sensitivity for the RnCAM Radon Air Monitor. Sensitivity is time determined from 5-30 minutes and is user settable. A short time frame can be set for a quick measurement. A longer time frame results in high sensitivity. The RnCAM Radon Air Monitor is detachable from the full system and can stand alone with its own electronics and sensors. If detached from the FM-9W electronics and the piping of the full system it can be used as a Portable Radon Air Monitor, expanding its mission and applications.

#### SEPARATOR CHAMBER:

The Radon Gas is separated from water in the Separator Chamber by means of heating and aerating. This provides a bubbling, trapping the Radon Gas and causing the Gas to rise, moving into the RnCAM Radon Air Monitor for measurement.

**WATER:** Total Radon Gas in water is determined with the special Alpha scintillator in the NEX-ALPHA-R water monitor. Once Radon Gas has been separated, the water is directed out of the Separator Chamber via the Calibrated Metering Pump to the water outlet and drain.

#### FM-9W ELECTRONICS:

Serves as one readout for two detectors.  
Has Data Archive and Retrieval.



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