



Portable Radon in Water

Model – RADON-7

Features

- Discrete Samples
- Continuous Flow
- Detects Alpha
- Lightweight
- Pump

Model RADON-7 System *includes*

- FLO-9 Sample Head
- PAS-8 Alpha Scintillator

Electronics - LAM-10 Alarming Ratemeter

- Versatile
- AC or DC Power
- 5 Decades
- User Settable Alarm: Audio / Visual

Optional: Computer interface; RS-232 etc. or complete data logging and acquisition systems.

Application

Detection of **Rising Radon Levels** in aquifer on drinking water is important to the health and safety of consumers and to the successful compliance to current **EPA** standards by **Utilities** and **Water Districts**.

Description

- Water flows continuously* through the lower section of the **FLO-9** sample head. Some of the suspended Radon gas escapes from the water due to its vapor pressure.
- The amount of Radon escaping can be increased by heating, agitating, bubbling, etc.
- The resultant Radon gas is detected by the **PAS-9** Alpha scintillation detector in the upper chamber.
- The count rate from the **PAS-9** Detector is displayed on the **LAM-10** alarming AC-DC Ratemeter or other TA counter.
- User settable alarm level.



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303

PHONE: 818-883-7043 | FAX: 818-883-6103

SALES@USNUCLEARCORP.COM | TECH-ASSOCIATES.COM | USNUCLEARCORP.COM

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The **RADON-7** Radon Alpha Scintillation system combines a modified PAS-8 Alpha Scintillation Probe plus FLO-9 vapor-flow-thru vessel for sample containment.

In this detection system, the protective ring and grill normally included in the PAS-8 when same is used as a free probe, is deleted to enhance sensitivity to Alpha radiation.

The sensitivity of the PAS-9/FLO-9 to 5 MeV Alphas is typically 80-85% of 2 pi. It is completely insensitive to Betas and Gammas. Background is typically less than one count per minute. Sample cavity is 2" diameter x 1/2" deep.

*inclusive of
PAS-9 detector

Model:	FLO-9
Dimension: *	3.5" x 7" L x 8" H
Shielding	none
Weight:	3.5 lbs
Shipping Weight:	6 lbs

The **PAS-9 Probe** is an Alpha Scintillation Probe with a 5-1/2" diameter x 0.8 mg/cm² window.

- The 100 cm² face of this probe allows rapid surveys to be made of personnel, equipment or flat surfaces.
- Background is in the order of several counts per hour. Sensitivity is 10 to 20% for 5 MeV. Alphas based on 4 pi geometry (20 to 40% based on 2 pi geometry).
- The protective grid is physically separated from the window thus making contamination of the window extremely unlikely.
- Grid may be removed for cleaning without disturbing the window. Some sacrifice of sensitivity has been made for this feature.

The **PAS-9/FLO-9** system is compatible with Technical Associates' LAM, PUG, and FM-9 Model Series Scalers and Ratemeters. This includes any other high-quality scaler or ratemeter furnishing well-regulated high voltage +700 to 1200 V and accepting 100 mV negative going pulses from a 200 MW source. Termination is BNC (**Optional: MHV**).



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7051 ETON AVENUE, CANOGA PARK, CALIFORNIA 91303
P: 818-883-7043 | C: 818-836-0381 | F: 818-883-6103
SALES@TECH-ASSOCIATES.COM | TECH-ASSOCIATES.COM

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