

PORTABLE RADON IN WATER

Model – RADON-7

FEATURES:

PAS-9 / FLO-9 SYSTEM

- DISCRETE SAMPLES
- CONTINUOUS FLOW
- DETECTS ALPHA
- LIGHTWEIGHT
- PUMP

ELECTRONICS - LAM-10-D



MODEL RADON-7 System Includes

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

ELECTRONICS - LAM-10-D

Digital 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

LAM-10-D

FLO-9 / PAS-9

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-D** alarming AC-DC Ratemeter or other TA counter.
- User settable alarm level.

[See RADON IN WATER COMPARISON CHART](#)



TECHNICAL ASSOCIATES

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PORTABLE RADON IN WATER

Model – RADON-7

The **RADON-7** Radon Alpha Scintillation system combines a modified PAS-9 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.

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

* inclusive of PAS-9 detector

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**).

ELECTRONICS - LAM-10-D

- ❖ LCD Display: 6 Digit Rate-8 Digit Integrate
- ❖ 5 Decades
- ❖ Gamma Rejection
- ❖ Versatile Application
- ❖ Wall Mount Or Portable
- ❖ AC Power
- ❖ Rechargeable Batteries
- ❖ Settable Alarm -Beeper Flasher
- ❖ Data Download Via RS232
- ❖ **Computer Interface:** RS232 Standard - **Optional:** USB
- ❖ **IP65**



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