

# Radium in Water Monitor

## Model Series - Radium Radium-TA and Radium-MCA

### Three Step Process

- 1) The pump and Radium collection cell are taken to the area to be tested.
- 2) Water is pulled through the cell for a standard period of time.
- 3) The scintillator/scaler, receives the sample and counts the activity.

Note: A longer pull time increases sensitivity and gives a sensitivity measurement down to 1 pCi/liter.

### Specifications

Scintillator/Counter:	Model PRS-7 single channel analyzer electronics package is coupled and works in conjunction with sample counter; Model STAM-2R.
Sensitivity:	3 pCi/Liter; 80 to 85% of 2 pi for 5 MeV alphas is typical. Gammas are rejected. Background radiation is typically less than one count per minute.
FCR-3 Flow Cell Refills:	A. Treated Beads; B. Treated ion exchange Disks

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#### ELECTRONICS:

##### PRS-7 – Bench Top or Portable

- Power: AC or Rechargeable Battery
- Display: Three Single Channel Analyzer Windows, Switch Selectable, Six Decades
- Housing: Splash Proof
- Dimensions: 10" W x 4.1" D x 7" H (25 cm L x 10.5 cm W x 18 cm H) includes handle
- Weight: 5 lbs (2.5 kg) including batteries
- Options:
  - Alarm Relay
  - RS-232, USB, etc. or complete data logging and acquisition systems

##### MCA-TA – Bench Top

- Electronics: High Quality Windows PC including:
- Operating Software: TAcquire™ custom software plus Excel Spread Sheet
- Radionuclide Library: Radionuclide Library Tailored to Customer Request
- Data: Stores Data to MS ACCESS Database; ata Files are Importable into Excel
- CPU with Data Acquisition: High Resolution COLOR display, Audio
- Data Ports: USB and Ethernet
- USB-Flash Drive: For data storage – 10 years storage
- Terabyte Hard Drive: Stores programs and 20 YEAR'S of Detailed DATA plus alarm record
- Power: 110 VAC - 60 Hz, 220 VAC optional 50/60 Hz  
Internal Battery Backup, Fail Safe


Dimensions: 21" W x 16" D x 11" H (53.3 cm L x 40.6 cm W x 27.9 cm H)  
Weight: 20 lbs (2.5 kg) including batteries

##### TBM-3D – Portable

- Power: 6AA Batteries  
Display: LED – As Ratemeter – 6 digit; as Scaler 8 digit; User Settable Units;  
Push Button Battery Check; 2 Separate Scale Factors for Rate and Total  
Computer interface; Audio alarm
- Optional:  
Dimensions: 3" W x 5.3" H x 3" D (76mm H x 134mm W x 76mm D)  
Weight: 21 oz. (600 grams)



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