

Uranium In Water Monitor

Model Series: Uranium-TA Uranium-TA, and Uranium-MCA

Three Step Process

1. The pump and Uranium 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 picoCi/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 picoCi/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

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:	Data Archive and Retrieval
- 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



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