

# 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

|                                 |   |
|---------------------------------|---|
| <b>Scintillator/Counter:</b>    | Model PRS-7 single channel analyzer electronics package is coupled and works in conjunction with sample counter; Model STAM-2R.                       |
| <b>Sensitivity:</b>             | 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. |
| <b>FCR-3 Flow Cell Refills:</b> | A. Treated Beads; B. Treated ion exchange Disks   |

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## Electronics

### PRS-7 – Bench Top or Portable

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

### MCA-TA – Bench Top

|  |  |
|--|--|
| - <b>Electronics: High Quality Windows PC including:</b> |  |
| - <b>Operating Software:</b>                             | <b>TAcquire™</b> custom software plus Excel Spread Sheet                         |
| - <b>Radionuclide Library:</b>                           | Radionuclide Library Tailored to Customer Request                                |
| - <b>Data:</b>   | Data Archive and Retrieval   |
| - <b>CPU with Data Acquisition:</b>                      | High Resolution COLOR display, Audio   |
| - <b>Data Ports:</b>                                     | USB and Ethernet   |
| - <b>USB-Flash Drive:</b>                                | For data storage – 10 years storage  |
| - <b>Terabyte Hard Drive:</b>                            | Stores programs and 20 YEAR'S of Detailed DATA plus alarm record.                |
| - <b>Power:</b>  | 110 VAC - 60 Hz, 220 VAC optional 50/60 Hz<br>Internal Battery Backup, Fail Safe |
| <b>Dimensions:</b>                                       | 21" W x 16" D x 11" H (53.3 cm L x 40.6 cm W x 27.9 cm H)                        |
| <b>Weight:</b>   | 20 lbs (2.5 kg) including batteries  |



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