

TRITIUM or RADON WATER MONITOR REAL TIME CONTINUOUS

Model # SSS-33M8 – Tritium

Model # SSS-33M8 - Radon

FEATURES:

- REAL TIME - OFFLINE
- CONTINUOUS MONITORING
- NOT INFLUENCED BY OTHER NUCLIDES
- NO LIQUID SCINTILLANT REQUIRED
- EASY CALIBRATION
- SENSITIVE TO 20,000 pCurie/l Tritium
- SENSITIVE TO 200 pCurie/l Radon



APPLICATION:

SSS-33M8/M8R

MEETS EPA DRINKING WATER LEVELS
MONITOR LEAKS IN CANDU TYPE REACTORS.
MONITOR TRITIUM CONTAMINATION IN GROUND WATER.
MONITOR LABORATORY OR PLANT LIQUID WASTE STREAM.

DESCRIPTION: This system consists of a small light tight detector assembly which is interfaced with the sample via mail 1/4" pipe fittings with the readout and processor assembly via two MHV connectors. The sample is passed through a deionizer and filter and thence to the detector assembly, where it is viewed by a matched pair of photomultiplier tubes.

The table top or rack mounted processor and display portion of this system conditions and analyzes the output from the photomultiplier tubes by pulse height and coincidence, thereby permitting the system to eliminate counting most background (noise) counts.

* SSS-33M8 users, see "Deionizer and Filter" specification (SSS-33M8/D and SSS-33M8/F).

TA TECHNICAL ASSOCIATES

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TRITIUM or RADON IN WATER MONITOR REAL TIME CONTINUOUS

Model # SSS-33M8– Tritium

Model # SSS-33M8R - Radon

SPECIFICATIONS:

- **Tritium Sensitivity:** 200 pCi/liter in 4 minutes. Requires use of the optional 1" thick lead shielding.
*LDD better than 20,000 pCi/liter averaged over 6 hours. Requires 4 hr background count time as well.
 - **Range:** 0-100 μ Ci/liter – other ranges optional higher or lower.
 - **Radon Sensitivity:** 1 pCi/liter in 4 0.1 pCi/liter in 4 minutes. Requires use of the optional 1" thick lead shielding
*LDD better than 20,000 pCi/liter averaged over 6 hours.
 - **Range:** 0-100 μ Ci/liter – other ranges also available.
 - **Flow Rate:** Minimum - 1 ml/min
Maximum - 100 ml/min
 - **Sample Temperature:** Standard - < 80° F (liquid); (optional - to 115° F)
 - **Ambient Temperature:**
Detector - < 80° F (**Optional** - to 115° F)
Readout - < 115° F
 - **Lead Shielding:** 1/4" thick is standard
1" thick is optional
 - **Dimensions:**
Detector - 4" dia x 19" Long
Readout - 10"H x 16"L x 19"W
 - **Weight (Standard Unit):**
Detector Housing - 20 lbs.
Readout Housing - 40 lbs.
Shipping - 90 lbs.
 - **Display:** Digital 5 digits, plus overflow (LED)
 - **Options:** Higher temperature to 115° F.
Computer and/or recorder output.
- Deionizer and Filter specification (SSS-33M8/D)**

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