



NexTritium-H2O Electronics



Two Pairs of Matched Photo Multiplier Tubes

## Features

- Low Level Tritium
- Sensitive to 0.2  $\mu\text{Ci/l}$  Tritium
- Real Time – Automatic
- Excellent Long Term Stability
- Continuous Monitoring
- Not Influenced by other Nuclides
- No Liquid Scintillant Required
- Easy Calibration
- New Statistical Significance Display
- Rugged
- Mounted: Caster, Skid, or Table Top
- **IP42**

## Application

- Meets EPA Drinking Water Levels
- Monitor Leaks in Candu Type Reactors Monitor Tritium
- Contamination in Ground Water
- Monitor Laboratory or Plant Liquid Waste Stream

# Automated Low Level Tritium In Water Monitor Real Time Continuous Model - NexTritium-H<sub>2</sub>O

## Description

This system consists of a light tight detector assembly which is interfaced with the sample via male 1/8" pipe fittings with the readout and processor assembly via two BNC connectors.

The sample is passed through a filter and thence to the detector assembly, where it is viewed by two pairs of matched photo multiplier tubes.


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

**Meets CFR/NRC Regulation of 1.0  $\mu\text{Ci/L}$  (H-3)  
NexTritium-H<sub>2</sub>O includes unique statistical  
Significance Display.**

- This function rates strength of the data preventing most false positives or negatives:
  - Significance: **High, Low, or Not Significant**



**TECHNICAL ASSOCIATES  
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