



Complies with Relevant Sections of
ANSI 42.17A & N42.18



Features

- On-Board Computer
- Real Time - Automatic
- Continuous Monitoring
- Not Influenced by Other Nuclides
- No Liquid Scintillant Required
- Easy Calibration
- Sensitive to 20 $\mu\text{Ci/l}$ Tritium or
Up to 30 Ci/l or More
- New Statistical Significance Display
- Data Archive and Data Retrieval
- USB / Ethernet Ports
- Rugged IP65
- Table Mounted
- **Optional** - Cart Mounted
- **IP32 - Electronics**
- **IP66 - Detector**

Tritium in Water Monitor Real-Time Continuous LIQ-X-(H3) Series; Low to High Level

Models:

LIQ-X (H3) LO

LIQ-X (H3) MID

LIQ-X-(H3) HI

Application

- Monitor Heavy Water Leaks in Candu Type Reactors
- Monitor Laboratory or Plant Liquid Waste Stream
- Thorium Reactor Research
- Fusion Reactor Research

Description

This system consists of a small light tight detector assembly which is interfaced with the sample via male 1/4" pipe fittings with the readout and processor assembly via two BNC 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 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 coincidence, thereby permitting the system to eliminate counting most background (noise) counts.

LIQ-X (H3) 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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