



Ultra Low-level Automated Tritium Air and Stack Monitor

Model – Trimaran-Air

**PWR & BWR Produce Tritium-
10 Curie/Giga-Watt/Year**

Application

- This monitor has been designed for near real time ultra low-level detection of Tritium in the industrial environment of nuclear power plants.
- Low MDA, reliability, ruggedness, and simplicity of automatic operation sets this monitor apart from typical laboratory types of equipment.
- The Model Trimaran-Air and Stack has been designed to feature sample enrichment, measuring the lowest levels of Tritium as possible.
- In addition to industrial use, this monitor is also used for other purposes, such as monitoring changes in Tritium in any setting.

Features

- Sensitive to 30 pCi/m³ (1 Bq/m³) In Air
- Optional: 6 Port Intake Manifold for Sampling 6 Individual Input Lines, Sampled in Series
- Tritium Only: Ignores Other Nuclides
- Proportional Counting
- Automatic Gamma Background Subtract
- Smart Electronics; Data Archive and Retrieval
- No Zero Drift
- Ultra Low MDA with High Accuracy
- Output Ports: USB, **Optional** 4-20 mA
- Easy Integration into Facility Mainframe
- User Settable – Units, Alarm Limits, Flow Rate, etc.
- Rugged, Reliable, Simple Operation; Steel Frame Mounted
- IP 32

Description

The unit condenses water vapor from the air and then extracts T2 and H2 from water vapor. The next step is enriching/concentrating the sample, then making sensitive Tritium measurement with matched gas flow proportional counters to minimize cosmic and Gamma radiation effects.

Optional ½" lead shielding provides lower background.

MDA	MDA
8 HOURS	24 HOURS
5 Bq/M³	1 Bq/ M³
150pCi/ M³	30 pCi/ M³



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