Airborne Tritium Tritides

Portable Detector

Model: T-TIDE-22

T-TIDE-22 – Electronics
(LAM-10DSC)

Features

- Measures All Tritium Emitters and Tritides
- Real-time Flow Through System
- Dual Pm Tube Design
- Settable Window Can Be Set For Other Isotopes If Desired
- Computer Interface
- AC/DC Power
- Electronics And Detector All-in-one Carrying Case

Application

A Flow-Through Liquid Scintillation Counting System is useful for measurement of a variety of radionuclides including Tritium and Tritium Tritides.

System Description

Measuring Principal: The most sensitive method of detecting and quantitating beta emitting isotopes is to intimately mix the sample with liquid scintillation fluor and count each individual scintillation event with photomultplier counters.
An Energy Analyzer further selects the pulses and delivers the true signal. **A Detection cell** is optically coupled to selected photomultiplier tubes. **A User Manual is provided.**

Flow Path Description

- Sample air enters
- Dual photomultiplier tube measures Tritium content
- Pressure sensor measures air entering Mass Flow Sensor
- Sample flows back into the atmosphere or gas collection system
- Sample enters the LSC bubbler cell
- Sample flows out of LSC bubbler cell through water trap filter
- Sample passes through a Mass Flow Sensor
- Sample passes through pump

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