



# Tritium Air / Stack Monitor

## For Public Release Level and Below

**Model Series - H3-PRL**

**Model H3-PRL-5 - 5 Decade Concentration**

**Model H3-PRL-7 - 7 Decade Concentration**

### Application

Nuclear Power, Fusion Power, Bio-Tech Industry,  
Environmental Monitoring, Indoor Air Quality

### Features

- Ultra Sensitivity to Low Level Tritium
- $3 \times 10^{-10}$   $\mu\text{Ci/cc}$  (10 Bq/m<sup>3</sup> in 24 hrs)
- $5 \times 10^{-9}$   $\mu\text{Ci/cc}$  (185 Bq/m<sup>3</sup> 1 hr)
- $1 \times 10^{-8}$   $\mu\text{Ci/cc}$  (370 Bq/m<sup>3</sup> in 20 min)
- $1 \times 10^{-7}$   $\mu\text{Ci/cc}$  (3.7K Bq/m<sup>3</sup> in 3 sec)
- Stable - Self Contained
- RS-232, USB and Ethernet
- Gives Concentration
- Gives Total Daily Release
- Real-Time Alarm
- Dynamic Background Compensation
- Can Actuate Remote Control
- Particulate + Ion Inlet Filters
- Wall Mountable
- **Optional:** Measures Tritium as HTO in Presence of Other Radioactive Gases (STG-5ATL)

- » On Board Memory
- » Micro Processor to Establish Units And Parameters
- » USB and Ethernet Data Port
- » Digital Accuracy Sensitive to  $10^{-7}$   $\mu\text{Ci/Cc}$
- » Measures Dose-Rate & Dose

### Description

- H3-PRL Series Tritium monitors are sensitive, rugged stack or effluent monitors for detection and measurement of airborne Tritium.
- The subtractive balanced chamber electrometer circuit decreases background effects to negligible levels
- De-ionized and filtered intake reduces to negligible levels spuriousity based on smokes, dusts, and existing ionization in the air.
- Inlet and outlet hoses allow the return of monitored air to source: interiors of fume hoods, exhaust stacks, etc.
- Related models are available to selectively measure only airborne HT, or only HTO, or C-14, or exclude Ar<sup>-41</sup>, Ra, etc.

- » Alarm – Visual and Audio
- » Dynamic Background Gamma Compensation
- » Can Actuate Computer or Remote Control
- » Measures Tritium as HTO In Presence of Other Radioactive Gases (STG-5ATL)
- » Cleans Gas Stream of Particulates and Ions




## TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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