

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

Specifications

MODEL	ALL MODELS	H3-PRL-5	H3-PRL-7
	BOTTOM OF RANGE	TOP OF RANGE	TOP OF EXTENDED RANGE
RATE	$1 \times 10^{-7} \mu\text{Ci/cc}$	$1 \times 10^{-3} \mu\text{Ci/cc}$	$1.0 \mu\text{Ci/cc}$
	0.1 <u>picoCi/cc</u>	999.9 <u>picoCi/cc</u>	0.999 $\mu\text{Ci/cc}$
	3.7K <u>Bq/m³</u>	37M <u>Bq/m³</u>	37G <u>Bq/m³</u>

MODEL	H3-PRL		
	BOTTOM OF RANGE	TOP OF RANGE	INTEGRATION TIME
Integrate for Determining Concentration	3×10^{-10} (10 <u>Bq/m³</u>)	$1 \times 10^{-6} \mu\text{Ci/cc}$ (370 <u>Bq/m³</u>)	24 hours
	5×10^{-9} (185 <u>Bq/m³</u>)	$1 \times 10^{-5} \mu\text{Ci/cc}$ (3.7K <u>Bq/m³</u>)	1 hour
	1×10^{-8} (370 <u>Bq/m³</u>)	$1 \times 10^{-4} \mu\text{Ci/cc}$ (37K <u>Bq/m³</u>)	20 minutes

Integrate to Determine

- Total Daily RELEASE:** Model Series H3-PRL SERIES automatically multiplies real-time concentration by your average daily stack output and reports total daily release from 0 $\mu\text{Ci/day}$ to $1^{099} \mu\text{Ci/day}$.
- Background:** Essentially eliminated by subtractive balanced chambers.
- Smoke, Dust, Ion Elimination:** Filter and de-ionizer reduce effects to negligible levels.
- Circuit:** Electrometer circuit amplifies net difference between a 25 liter tritium internal chamber and internal background chamber of identical size and configuration.
- Detector:** Air stream is passed through sample chamber to measure all Tritium gas content.
OPTION: Xenon, Krypton, $^{14}\text{CO}_2$, etc.
- Calibration:** Can be calibrated internally with Tritium (or HTO) gas, or on a Gamma calibration course; or can be checked at a single point with an external (not provided) Beta source.
- Factory Calibration:** Performed prior to shipment with accompanying Calibration Certificate.
- Field Calibration:** Calibration check may be performed in the field with optional license exempt microCurie level Beta source.



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