

TOTAL-6 - Stack Monitor

Gas, Particulate - Tritium - Carbon-14, Gross Beta-Gamma - Iodine

Model: TOTAL- 6-TCI-H³, Tritium and Inorganic C-14 (CO₂), Model: TOTAL-6-TCO-H³, Tritium and Organic C-14,
Model: TOTAL- 6-TC- H³, Tritium and Total C-14, Model: CAM-33 SERIES, Multi-Nuclide System

Specifications

All six models, the TOTAL-6 Stack Monitors and the CAM-33 are good for Nuclear Power Plants, Stacks, Room Air, etc. They are sensitive, rugged stack or effluent monitors.

- The **TOTAL-6** series stresses Tritium and C-14 detection.
- The **CAM-33** series stresses particulates, Iodine, and Noble Gas.
- The **CAM-33-6** monitor has the most channels for 6 simultaneous measurements of Gross Beta/Gamma Particulates, Alpha Particulates, Noble Gas, Iodine, Tritium, and C-14.

NOTE: See the TOTAL-6 Series Stack Monitor Chart and the flow diagrams included here for details to help you select the detector suite that best serves your need.

See Spec Sheet details for the CAM-33 Series.

Commercial versions are available for research labs, room air, glove boxes and other applicable uses.

Tritium and ¹⁴CO₂ Measurement Description:

- The subtractive balanced chamber electrometer circuit and optional Radon Rejection decreases background effects to negligible levels.
- The deionized and filtered intake reduces to negligible levels spuriousity based on smokes, dusts, and existing ionization in the air.
- Inlet and outlet hoses provide return of monitored air to source: interiors of fume hoods and exhaust stacks, etc.
- All instruments are calibrated at the factory. Calibration check may be performed in the field with a license exempt μ Curie level Beta source

Measurement Ranges of Optional Detectors	From	4 Decade Model	6 Decade Model
Tritium	10 ⁻⁷	10 ⁻³	10 ⁻¹ uCi/cc
Inorganic C-14	10 ⁻⁸	10 ⁻⁴	10 ⁻² uCi/cc
Organic C-14	10 ⁻⁹	10 ⁻⁵	10 ⁻³ uCi/cc
Alpha particulate	5 x 10 ⁻⁸	10 ⁻⁴	uCi/cc



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