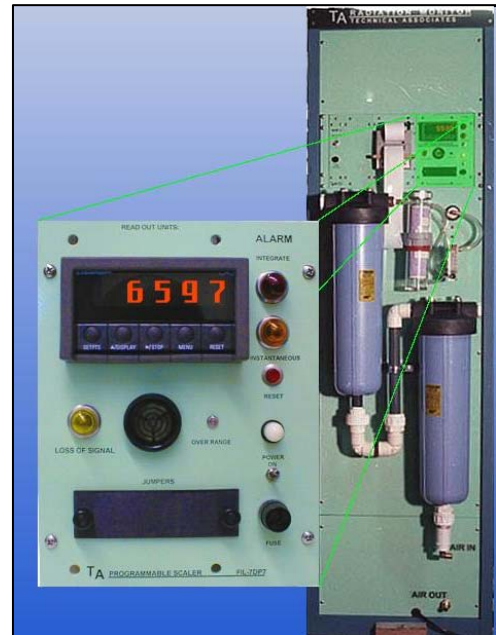




TRIATHALON TRITIUM and C-14 STACK MONITOR
Model CAM-TCI -H-3 plus- Inorganic C-14 (CO₂)
Model CAM-TCO -H-3 plus- Organic C-14
Model CAM-TC - Multi-Nuclide System

FEATURES:

- MICRO PROCESSOR OPERATION
- USB and ETHERNET PORTS
- DIGITAL ACCURACY
- SENSITIVE TO:
 - H-3 10⁻⁷ μ Ci/cc
 - CO₂ 10⁻⁸ μ Ci/cc
 - Organic C-14 10⁻⁷ μ Ci/cc
- READS DIRECTLY IN μ Ci/cc or Bq/l
- INCLUDES ALARM
- DATA LOGGING STANDARD
- HARD COPY PRINTER -(optional)
- DYNAMIC BACKGROUND COMPENSATION
- CAN ACTUATE REMOTE CONTROLS
- CAN OPERATE IN PRESENCE OF OTHER RADIOACTIVE GASES
[See Chart on p.2]
- CLEANS GAS STREAM OF PARTICULATES AND IONS



CAM-TC



CAM-TCI



GENERAL DESCRIPTION: TA-OVERHOFF CAM-TC Tritium and C14 Monitors are sensitive, rugged stack or effluent monitors for designed and built for **Nuclear Power Plant** use. Commercial version available for research labs, room air, glove boxes and other applicable uses.

The subtractive balanced chamber electrometer circuit and optional Radon Rejection decreases background effects to negligible levels, and the deionized 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 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.

P.O. Box 182, 1160 U.S. Route 50, Milford, Ohio, 45150-9705 USA
Telephone 513 248 2400 : Facsimile 513 248 2402
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Tritium and Carbon -14 Stack Monitors Selection Guide
 For single isotope air monitors or different combinations see
Technical Associates and Overhoff Technology Product Catalogs as well

Airborne Activity	Model	CAM TCO (1)	CAM TCI (1)	CAM TC	CAM 33	CAM 33-4	CAM 33-6	321/421 NPPM (1)
	Chemical Form							
Tritium H3	T ₂ , HTO T ₂ O	YES	YES	YES			YES	YES
Carbon C-14: Inorganic Organic	CO ₂ Various	— YES	YES —	YES OP			OP YES	
Particulate	Alpha							
Particulate	Beta				YES	YES	YES	
Iodine				OP	YES	YES	YES	
Noble Gas: Gross/All Argon Xeon Radon		RX	RX	YES OP OP RX	YES	YES	YES OP OP RX- OP	CURIE-MeV OP OP RX

Number of Channels YES = Measures Separately
 RX = Rejects
 OP = Optional

Note [1] Models CAM-TCO and CAM-TCI work best if no other nuclides are present.



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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

- Background** Essentially eliminated by subtractive balanced chambers. [Radon Rejection Optional]
- Smoke, Dust & Ion Elimination** Filter and deionizer reduce effects to negligible levels.
- Circuit** Electrometer circuit amplifies net difference between a 30 liter tritium internal chamber and a background chamber of similar size and configuration.
- Calibration** Can be calibrated internally with tritium [or HTO]and CO₂ gas, or on a gamma calibration course; or can be checked at a single point with an external [not provided] beta source. Organic Carbon Channel can be calibrated with C-14 disk source.
- Output** USB Port is standard ethernet port is optional
Optional 0-5 volt or 4-20 mA.
- Alarm** High Level: Red flashing light plus warbling sound
System Fault Alarm: White steady light
- Remote Alarm** 3 Relays provided for operators use
- Data-logging** Use Serial port or on board data logging optional
- Dimensions** 23" wide x 66" high x 36" deep.
- Shipping Weight** 635 lbs.
- Optional Accessories** Remote alarm [audible & visual] Model RDX-8 [including 25" of cable]. Can be used to 500 feet. 4-20 mA for computer.
- Optional Features** Interconnection to/from port of other gas or particulate monitor.

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POWER PLANT STACK MONITOR

