



Detector & Pump

Plutonium Air Monitor Quick Response

Model: Series - FAST-CAM-5 & FAST-CAM-5T



Detector Swings
Aside For Easy
Filter Replacement

Features

- Detects Plutonium and Other Alphas
- Detects Betas
- Beta Channel Has Radon Rejection
- Dual Detectors
 - Alpha – ZnS(Ag)
 - Beta – Plastic Scintillator
- Alarm: Audio / Visual
- 35 CFM Flow Rate- 4" Dia Filter
- Quick Change Filter
- Real Time Operation
- Provides Local Or Remote Readout
- Two Models Available
 - Portable With RS-232
 - Table Top With USB or Ethernet



PRS-2F Portable

Two Electronics
Options

Fully Compatible to Overhoff Radiation Overview (ORO) Network

Application

The **FAST-CAM-5** detects airborne Alpha radiation in high or varying background situations. Alarm points are pre-settable. Data output ports are provided with both the portable and the table top electronics models. Designed for stand-alone (or networked) operation such as the Overhoff Radiation Overview (ORO).




Table Top Fast-Cam 5T FM-9 Electronics



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Plutonium Air Monitor Quick Response

Model: Series - FAST-CAM-5 and FAST-CAM-5T

Description

- A ZnS (Ag) detector and Beta Scintillator which allows separate and simultaneous Alpha and Beta readouts.
- Provides integrated exposure information and has pulse output available
- Measures Pu-239 or other alpha emitters in the presence of significant or varying Radon-Thoron background.
- Count rate is read on the front panel digital display
- 6-digit display for both rate and integrated information.
- User selectable operating modes: gross count, area of interest counts - pulse height analyzing (PHA), or PHA with background subtract (PHA-SUB).
- Settable alarm point over the entire range with adjustable alarm delay to avoid short term transient alarms
- 35 CFM air pump
- Quick change 4" dia filter.
- A box of 20 pc 4" dia filters and user's manual are included
- A complete system. Table top model **Fast-Cam-5T** may be expanded according to the needs of the user utilizing the FM-9 series modules.

Specifications

Detection:	ALARM in 10 sec at 2.7 DAC-HR prior to exposure of 74Bq/M ³ .
PROBLEM:	Most Pu monitors take too long to detect dangerous airborne levels and therefore do not provide personnel timely warning and opportunity to evacuate.
SOLUTION:	In case of a spill or leak that produces air borne concentration of 74Bq/m ³ the Fast-Cam-5 and Fast-Cam-5T will alarm quickly, in 10 seconds limiting worker exposure to 2.7 DAC-HR.
Counting Efficiency:	20 percent of 2 pi with wide window setting and 4" dia Pu-239 source in the filter holder.
Detector:	ZnS(Ag) – Optional: dual phosphor with a 5" dia photo-multiplier tube and a typical Alpha resolution of 60 KeV maximum.
Response Time:	1 sec. to 24 hrs.

Detectors

Alpha	ZnS (Ag)
Sensitive	5" dia
Efficiency, typical:	Pu-239 4.0 Bq/cps, 25.0%
Beta	plastic scintillator .020"
PM Tube	5" dia
Efficiency, Typical:	Tc-99 11.0 Bq/cps, 9.1%
Alpha cross talk into Beta channel	2.0%
Beta cross talk into Alpha channel	0.08%
Background (unshielded)	
Alpha	5 cpm
Beta	200 cpm



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Electronics

Portable – PRS-2F

Display: Dual display, Alpha and Beta. 2 separate scale factors for rate and total PRS-2F
Energy discrimination

Alarm: Audio / Visual

Data Output: RS-232

Temperature: -10 C° to 40° C

Power: Battery operation: 6 AA cells or optional in-place rechargeable batteries.

Battery Life: 100 hours with Alkaline cells (200 hours with - Lithium cells).

Construction: Rugged, lightweight

Weight and Dimensions

Display: 3-1/4" H, 4-1/4 W, 7-1/4" (Long excluding probe holder and handle).

Alarm: 2 lbs.

Digital Display PRS-2F	RATEMETER	SCALER
Range	6 digit LCD	8 digit LCD
User Settable Scale Factor	0.1 - 20,000 count/sec	0-10,000,000 Total counts
Time Constant	0.01 to 99 seconds Display Refresh Rate	Free Running

Electronics

TABLE TOP MODEL – Fast-Cam-5T

Power Supply and MV-5.12.24

Power: AC 115V, 60 Hz (230 Volts, 50 Hz **optional**)

MAC-9: Air Control Timer; Low Flow Alarm Flowmeter

MGA-5: Single Channel Analyzer

FM-9: On-Board computer with color monitor

Readout: 7" Color LCD monitor built-in user data display

Data Output: USB or Ethernet



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- Concentration
- Total Activity on Filter
User Settable Units: (cps, Bq, μCi , Bq/m^3 , $\mu\text{Ci}/\text{l}$, DAC, DAC-hr etc.)
- Raw Counts
- Flow Status
- Alarms – Audio and Visual On screen red light alert - User Settable.
- System Status; System Error
- Alert Change Filter Due to High Activity Build Up – Range Typically Set at 500 kBq or 13.5 μCi
User Settable.

Modules and Functions Include:

- MAR-6:** Alarm with Relays for operators use and for Acknowledge (audio disable)
SUB-5: Three levels energy analyzer
FIL-7: Digital Process Readout with RS-232 Output, Process Loop Transmitter (optional)
Filters: Includes a package of 20 Glass fiber free flowing 4" dia filter

Weight and Dimensions:

- FM-9 Electronics:** 21" W x 11" H x 15" D.
FM-9 Weight: 40 lbs.

Accessories and Options Available:

- Remote Alarm
- Remote Readout
- Beta detector for Radon Rejection
- Multi detector Overview Network Software for Plant Wide Real-Time Data collection



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