



Bench Top Electronics



Wall Mount Electronics

Exit/Doorway Monitor  
 Package/Mail Monitor  
 Vehicle Monitor  
 Laundry Monitor  
 Versatile Radiation Control Monitor  
**Model - FM-9W-V**

## Description

FM-9W-V radiation control monitors are rugged and ideal for either laboratory or industrial application. AC Operation. These versatile instruments fill a varied list of applications and placement needs.

The FM-9W-V series utilize a variety of probes including Technical Associates P & S series, Geiger, and scintillation. The many choices in probes provide instrumentation that will fit your need.

- User settable to preferred engineering units: mR/h; Sv/h, microCuries/ml, etc.
- Computer interface, USB, Ethernet, etc,
- Standard base unit includes electronics and (2) PGS-3 detectors. Unit will accept a wide variety of detectors. Other detectors are optional.

## Features

- Multi-Detector System
- Wall Mount or Bench Top Electronics
- AC Power
- On-Board Data Archive and Retrieval
- Stop Entry/Exit of Radioactive Items
- Highly Sensitive
- Use with 50 Detector Models
- Alarms with Radiation Detection
- Relay Control Can Lock Doors, Trigger a Siren or Send an Alert
- USB and Ethernet Ports

## Application

Maintain control of radioactive materials through monitoring when and where radioactive materials are entering or leaving an area. The FM-9W-V has many variations including the highly sensitive FM-9W-V/PGS-3 and the FM-9W-V/PGS-3L. These instruments are easily placed at entrances, exits, and other strategic locations monitoring

## Detectors

**Probe Holder:** Probe Holder is provided for probe purchased.

**Any GM** (such as P-13, P-15, P-6LB, etc.) or

**Alpha, Beta, Gamma or Neutron Scintillator** (such as PAS-8, PAS-9, PGS-3, PGS-3L, PNS-19, etc.)

**Note:** PGS-3: 1"x1" diameter NaI crysta  
 PGS-3L: 2"x1" diameter NaI crystal



**TECHNICAL ASSOCIATES**  
**OVERHOFF TECHNOLOGY**

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DIVISIONS OF



USNUCLEARCORP

OTCQB-UCLC

# Exit/Doorway Monitor, Package/Mail Monitor, Vehicle Monitor Laundry Monitor, Versatile Radiation Control Monitor

## Model - FM-9W-V

	FUNCTION	DETECTS Alpha, Beta, Gamma Unless Otherwise Noted	PLACEMENT
1	EXITS / DOORWAYS	Alarms when radioactivity is carried through an exit or doorway.	Mount to top or side of door frame or mount to wall adjacent to doorway.
2	HANDS & SHOES	Checks hands and shoes for contamination	Floor standing cabinet or wall and table mounted.
3	VEHICLES	Alarms when vehicle carrying radioactivity stops at guard house.	Mount on posts on either side of facility entrance road. Requires weather-proof probe housing and long cables.
4	LAUNDRY	Detects contaminated garments.	Mount above sorting table or conveyor belt.
5	FUME HOODS	Alarms when radioactivity is released into fume hood exhaust.	Mount inside or on top of fume hood filter enclosure.
6	MOBILE RADIATION LABORATORY	Measures radiation from fixed sources or from other vehicles	Small unit sits in front seat or trunk. Larger unit slides into rear of van or truck.
7	PACKAGE / MAIL	Checks mail and packages.	Mount to sorting table, mail conveyor, or door frame of entry for mail.
8	LOADING DOCK / WASTE ROOM/COMPACTER	Checks packages and waste.	Mount to loading dock receiving area, conveyor, or door frame of entry.
9	CAM-AIR / STACK	Tests stack gases, room air, etc. for a variety of contaminants..	Mounted in rack or wheeled cabinet. Includes detectors, shields, and pumps.
10	REAL-TIME DRINKING WATER	Measures alpha, beta, gamma to EPA PAG protective action level.	Free standing cabinet.
11	LIQUID SCINTILLATION	Highly sensitive alpha-beta-Gamma or Tritium LSC Systems	Lab, bench model or portable unit mounted in carrying case.
12	MULTI-DETECTOR AREA	Gamma or PET or Neutron	Wall mounted detectors, local/remote display and alarms.
13	MULTI-DETECTOR ARRAY	Indoor or outdoor system	As needed to fit specific use.
14	REAL-TIME WATER OR LIQUID EFFLUENT	Test liquid discharge from pipe discharge channel, soil, or pond.	Systems available with submersible probe or with real-time continuous sampling pump.



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# Exit/Doorway Monitor, Vehicle Monitor Package/Mail Monitor, Laundry Monitor

## Versatile Radiation Control Monitor

Model - FM-9W-V

### Specifications

#### Detector

Standard base unit includes (2) PGS-3 - 1" x 1" diameter NaI crystal  
Unit will accept a wide variety of detectors which are **Optional**.

#### Electronics

##### Engineering Units:

User can input correct conversion factor and change to any units.

##### Controls: Front Panel:

On-Off, Alarm-mute, Rate, Integrate, Reset.

##### Recessed or Internal:

Discriminator level, high voltage. Other adjustable settings: See calibration.

##### Input Sensitivity:

Adjustable from less than 1 millivolt to 100 millivolt  
Anti-saturation and Dead-time Corrections are available.

##### Alarm:

2000 Hz audio tone with audio "mute" switch + RED LIGHT  
High current relay. 0-100% of full scale.

##### Alarm Set Point:

User settable to any point on the detector range.

##### Serial Output:

Two way USB standard, Ethernet optional.

##### Power:

AC 105-125 volts, 50-60 Hz (220 V **optional**)

##### Construction:

Gasketed aluminum case.

### Dimensions and Weight

#### Wall Mount

13.5" W x 11" H x 3.6" D (25 cm x 18 cm x 10 cm),  
3 pounds (1.4 kg) excluding probe.

#### Bench Top

21" W x 11" H x 15" D (53.3 cm x 27.9 cm x 38.1 cm)  
40 pounds (18.1 kg) excluding probe.



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# Exit/Doorway Monitor, Vehicle Monitor Package/Mail Monitor, Laundry Monitor

## Versatile Radiation Control Monitor Model - FM-9W-V

Choose Any TA or Compatible Probe



**-Over 50 different T/A probes and sample counter detectors**  
Probe holder supplied - no charge if probe and FM-9W purchased together

DESCRIPTION	RADIATION DETECTOR
A. PG-LB. Low Background GM	Alpha, Beta, Gamma, X-ray
B. PAS-9. 100 cm <sup>2</sup> Scintillator	Alpha
C. PGS-3 Scintillator	Beta, Gamma
D. COL-3S Collimator	NA
E. PLS-04. Wound Monitor	Pu-239
F1. IC-1 Ion Chamber F2. IC-2 Ion Chamber F3. DMU-1000. Submersible Ion-Chamber	Beta, Gamma, X-Ray Gamma Area Monitor Nuclear Plant Fuel Rods
G. P-15. Surface Monitor GM	Alpha, Beta, Gamma, X-ray
H. STB-TF-6. Sample Counter	Tritium, C-14
I. TS-26. Surface Monitor	Tritium, C-14
J. PN-13. Rem Ball	Neutrons
K. Silicon (Not Shown)	High Flux Beta - Gamma



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