

EXIT/DOORWAY MONITOR PACKAGE/MAIL MONITOR VEHICLE MONITOR LAUNDRY MONITOR VERSATILE RADIATION CONTROL MONITOR

Model - FM-9W-V

FEATURES:

- MULTI-DETECTOR SYSTEM
- WALL MOUNT OR BENCH TOP ELECTRONICS
- AC POWER
- ON-BOARD DATA ARCHIVE & 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 & ETHERNET PORTS



**BENCH TOP
ELECTRONICS**



**WALL MOUNT
ELECTRONICS**

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.

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 crystal

 PGS-3L: 2"x1" diameter NaI crystal



**TECHNICAL ASSOCIATES
OVERHOFF TECHNOLOGY**

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Divisions of



US NUCLEAR CORP

OTCQB - UCLE

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	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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SPECIFICATIONS:

DETECTOR:	Standard base unit includes (2) PGS-3 - 1"x1" 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 & 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.

SEE PROBE SELECTION BELOW



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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 ² 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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