

ALPHA FLOOR MONITOR

Model ~ AFM-2

FEATURES

- PORTABLE
- DETECTS ALPHAS; REJECTS BETA AND GAMMA
- FOUR PM TUBES
- LARGE AREA COVERAGE - 144"²
- FAST
- SENSITIVE
- RUGGED
- EASY DECONTAMINATION

PUG-7D ELECTRONICS

- ACCEPTS GM AND SCINTILLATION PROBES
- PORTABLE
- BATTERY OPERATED
- DIGITAL
- FIVE DECADES
- NO RANGE SWITCHING REQUIRED
- COMPENSATION FOR COINCIDENCE
- BUILT-IN SPEAKER
- **OPTIONAL:** RECHARGEABLE BATTERIES CHARGER



AFM-2 with PUG-7-D Electronics.

DESCRIPTION:

- Alpha, zinc sulfide scintillation detectors.
- Four PM tubes
- 144 square inches of coverage at one time providing extreme sensitivity.
- Single Alphas audibly detected

SPECIFICATIONS:

Detection Area:	Covers a 6" x 24" area - 144 square inches total face.
Sensitivity:	0.9 mg/cm² Alphas - Zero sensitivity to Betas & Gammas.
Mobility:	3 wheeled, Ball bearing casters, replaceable tires, swivel rear caster.
Read Out:	PUG-7-D digital, speaker, and meter readout.



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Divisions of  US NUCLEAR CORP

OTCQB - UCLE

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Detector Details:

- 4 PM tubes collect information from 144 sq. inches (925 cm) of zinc sulfide scintillators protected by thin light-tight easily replaceable window plus grille.
- 6" x 24" detector face; Window is less than 1 mg/cm.
- Sees Alphas rejects Gammas and Betas
- **Detector Type:** ZnS(Ag) for Alpha

ELECTRONICS: PUG-7-D

Digital Display:	Length = 6 digit rate, 8 digit total dose Other meter scale markings are available.
Engineering Units:	User can input correct conversion factor and change to any units.
Front Panel Controls:	On-Off, Alarm-mute, Rate, Integrate, Alarm Set and Reset.
Recessed or Internal:	Discriminator level, high voltage
Other adjustable settings:	See calibration.
Detectors:	Any GM (P-13, P-15, P-6LB, etc.) or Alpha, Beta, Gamma or Neutron scintillator (PAS-8, PAS-9, PGS-3, PNS-19, etc.).
Input Sensitivity:	Adjustable from less than 1 millivolt to 100 millivolt
Accuracy:	±10%
Anti-Saturation & Dead-time Corrections:	Differentiation circuit provides highly effective compensation for coincidence loss. This allows all five decades to accurately read with scintillation detectors.
Calibration:	Digital input of calibration factor gives high precision adjustment.
Probe Connector:	BNC (optionally MHV) low noise Teflon insulated.
Battery:	9 volt battery (150-300 hours typical life).
Dimensions:	3-1/4" H, 4-1/4" W, 7-1/4" long excluding probe holder and handle.
Weight:	2 lbs. 4 oz.

PHYSICAL FEATURES:

- Adjustable height above floor.
- Convenient handle,
- Weight 4 kg
- Three wheeled for ease of pivot ability
- Output for recorder.



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