



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

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 and Gammas.

Mobility:

Ball bearing casters, replaceable tires, swivel rear caster and distribution.

Read Out:

PUG-7-D digital, speaker, and meter readout.



TECHNICAL ASSOCIATES OVERHOFF TECHNOLOGY

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Alpha Floor Monitor

Model: AFM-2

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 and 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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