FLOOR MONITORS ALPHA plus BETA-GAMMA

Model Series ~ ABFM SERIES

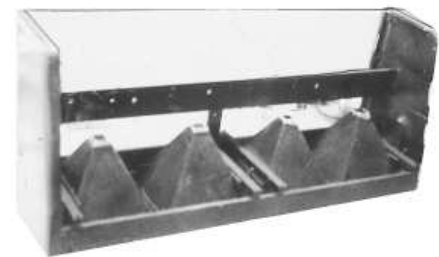### Model ~ ABFM-5 Pancake Array GM   Model ~ ABFM-6 Scintillator

Model ~ ABFM-7 Gas Flow

FEATURES:

- **ABFM-5 -** DETECTS ALPHA, BETA, GAMMA TOGETHER
- **ABFM-5 –** 12 LARGE WINDOW GM PANCAKE DETECTORS
- **ABFM-6 -** DUAL DETECTORS
    - ZnS(Ag) for Alpha
    - Beta Scintillator Sheet
- **ABFM-7 -** GAS FLOW PROPORTIONAL DUAL DETECTOR
- LARGE FACE 144 square inches (925 cm) on **ABFM-6** and **ABFM-7**
- **PRS-2S** ELECTRONICS SEPARATES ALPHA FROM BETA-GAMMA IN **ABFM-6** AND **ABFM-7**
- FAST AND SENSITIVE
- DIGITAL READOUT
- OUTPUT FOR RECORDER
- RUGGED, EASY DECONTAMINATION
- BUILT-IN SPEAKER

ABFM-SERIES FLOOR MONITORS

ABFM-SERIES FLOOR MONITORS INTERIOR

PRS-2S ELECTRONICS

DESCRIPTION:

Alpha plus Beta Gamma Floor Monitors, Models **ABFM-5, 6**, & **7** utilize Alpha-Beta-Gamma sensitive detectors coupled to **Model PRS-2** electronics with backlight.

- An electronic sorter accepts and displays Alpha counts only or Alphas plus Beta-Gamma, or Beta-Gamma only.
- Windows are protected by a frame and grid which is easily removed for decontamination.
- The very large face detectors achieve the fastest most sensitive floor monitoring system currently available.

FLOOR MONITORS ALPHA plus BETA-GAMMA

Model Series ~ ABFM SERIES

Model ~ ABFM-5 Pancake Array GM   Model ~ ABFM-6 Scintillator
Model ~ ABFM-7 Gas Flow

SPECIFICATIONS:

PRS-2S ELECTRONICS:

- PORTABLE OR BENCH TOP
- DUAL DIGITAL DISPLAY BATTERY OPERATION
- 2 SEPARATE SCALE FACTORS FOR RATE & TOTAL
- 0.1-99 sec TIME CONSTANT FOR RATEMETER
- 8 DIGIT LCD DISPLAY
- ALARM - AUDIO/VISUAL
- BRING YOUR OWN STOP WATCH, IDEAL FOR LONG COUNT - UP TO 24 HOURS OR MORE
- ANY GM OR SCINTILLATION ALPHA, BETA, GAMMA, X-RAY, POSITRON DETECTOR.
- USB **OPTIONAL**: RS-232 SERIAL PORT
- **OPTIONAL:** PRE-AMPLIFIER
- **CE MARK**
- **IP64**
- Reads out from 2 separate probes simultaneously
  No energy discrimination

Alarm:	Audio / Visual, Low Battery Warning
Temperature:	-10 C^o to 40° C
Power:	Batteries: 6 AA cells or optional in-place rechargeable batteries.
Battery Life:	100 hours with Alkaline cells (200 hours with - Lithium cells).
Construction:	All plug in circuit cards, essentially no wires. Rugged, lightweight
Dimensions:	3-1/4" H, 4-1/4 W, 7-1/4" long excluding probe holder and handle.
Weight:	2 lbs.

Options:	RS-232 serial port
	Pre-amp for proportional detectors
	Other connectors - MHV etc
	In-place rechargeable batteries

FLOOR MONITORS ALPHA plus BETA-GAMMA

Model Series ~ ABFM SERIES

Model ~ ABFM-5 Pancake Array GM   Model ~ ABFM-6 Scintillator

Model ~ ABFM-7 Gas Flow

MODELS:

ABFM-5:   12 large window, GM pancake detectors, 29 sq. inches coverage in 24 inch swath.

Window 1.5-2 mg/cm.

Sees Alpha plus all common Betas except H-3.

Physical Features:

Adjustable height above floor.

Adjustable handle, minimum 43" (110 cm) height

Weight 4 kg

The **ABFM-5** sees **all Alpha, Beta and Gamma together.** It does not sort.

PRS-2S Electronics:

See PRS-2S details

ABFM-6:   **Detector Details:**

4 PM tubes collect information from 144 sq. inches (925 cm) of ZnS(Ag) protected by thin light-tight easily replaceable window plus grille.

6" x 24" detector face; Window is less than 1 mg/cm.

Detector Types: ZnS(Ag) for Alpha

Beta Scintillator Sheet located behind the Alpha detector

PRS-2S Electronics:

Alpha only or **Beta-Gamma only** or **all**.

Digital readout.

Power: Lithium Ion Battery Pack

Physical Features:

Adjustable height above floor.

Convenient handle

Weight 8 pounds (4 kg)

Three ball bearing wheels including swivel rear wheel for pivot ease

ABFM-7:   144 sq. inches thin window gas flow proportional dual detector.

Window is less than 1 mg/cm .

PRS-2S Electronics:

Sees Alphas and all common Betas except H-3.

Sees X-rays (eg Gammas down to 5 KeV but with less efficiency.

Switch selectable for **Alpha** or **Beta-Gamma** or **all**.

Pulse height analyzer; Analog plus digital response.

Physical Features:

Adjustable height above floor.

Output for recorder; Includes gas supply (P-10).