

FLOOR MONITOR ~ GAMMA AND BETA

Model Series ~ GBFM

Models ~ GBFM-1 & GBFM-2

FEATURES:

GAMMA and BETA SCINTILLATION PANEL (GBFM-1)

- LARGE FACE 500 square inches (3,225 cm²)
- DUAL MATCHED PM TUBES
- POWER: RECHARGEABLE BATTERY AND CHARGER
- FAST AND SENSITIVE
- (3) WHEELED WITH ADJUSTABLE HEIGHT

ELECTRONICS: LAPTOP COMPUTER, SOFTWARE, DISPLAY

- DATA ARCHIVE AND RETREIVAL
- USB PORT
- DIGITAL BACKLIT READOUT
- ALARMS: AUDIO AND VISUAL
- RUGGED, EASY DECONTAMINATION
- IP63

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### GAMMA and BETA SCINTILLATION PANEL (GBFM-2)

- LARGE DETECTOR FACE 900 cm<sup>2</sup>
- SINGLE PM TUBE
- FAST AND SENSITIVE

### ELECTRONICS: PRS-2F, DUAL DISPLAY

- POWER: RECHARGEABLE BATTERY AND CHARGER
- FAST AND SENSITIVE
- (3) WHEELED WITH ADJUSTABLE HEIGHT
- DIGITAL BACKLIT READOUT
- ALARMS: AUDIO AND VISUAL
- RUGGED
- EASY DECONTAMINATION
- IP63
- **OPTIONAL:** USB / RS-232 SERIAL OUTPUTS



**GBFM-1- FLOOR MONITOR**



**GBFM-2-FLOOR MONITOR**



**GAMMA**



**BETA**

**GBFM-2  
PRS-2F ELECTRONICS**



**TECHNICAL ASSOCIATES**

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# FLOOR MONITOR ~ GAMMA AND BETA

## Model Series ~ GBFM

### Models ~ GBFM-1 & GBFM-2

#### APPLICATION:

Nuclear or other Power generation facilities where radioactive materials may be present.

Floors of industries utilizing radioactive materials.

Research Laboratories, Radiopharmacies, Medical Facilities.

Evaluate potentially radioactive spills.

#### DESCRIPTION:

The **GBFM Series** Beta and Gamma Floor Monitors utilize Beta-Gamma sensitive detectors coupled to a computer tablet with software electronics with backlight.

- The very large face detector (500 square inches -3,225 cm<sup>2</sup>) achieves the fastest most sensitive floor monitoring system currently available. **GBFM-1**
- The detectors are mounted on (3) adjustable height wheels for ease of maneuverability.
- The electronics are a laptop mounted near the top of the handle.
- Power: Rechargeable batteries and Charger. Charger Power: 220 AC and 380 AC **GBFM-1**
- Power: AA Batteries or  
**Optional** Rechargeable batteries / Charger. Charger Power: 220 AC and 380 AC **GBFM-2**
- Suitable for smooth floors or rough surfaces such as parking lots, roads, driveways

#### SPECIFICATIONS:

##### GBFM-1 Gamma and Beta Floor Monitor:

- DETECTOR:** (1) Premium Plastic Scintillation Panel with a wide temperature range  
Dual matched PM tubes
- **Dimensions:** 12"W x 1.5"H x 44"L. (30.4 cm x 3 cm x 112 cm)
  - **Surface Area:** 500 in<sup>2</sup> (3,225 cm<sup>2</sup>)
  - **Sensitivity:** Easily Detects 1 µCi of Cs-137 or Co-60 and below anywhere within scanner floor area. Background up to 1 mR/hr.
  - **Read Out:** cps, Bq/cm<sup>2</sup>, Bq – User Settable  
Gamma and Beta – Sum of counts.
  - **Detector Height:** Adjustable height above floor – 0.19 " to 1.37 " (5 to 35 mm).
  - **Weight:** Approximately 15 pounds (6.8 kg).
  - **Dimensions:** 46" L x , 3"H x 14"W (117 X 8 X 35 cm) excluding handle.
  - **Physical Features:** Convenient handle.  
Three ball bearing wheels including swivel rear wheel for pivot ease.
- Options:** Other scintillator surface areas available.  
Larger diameter wheels for extra rough ground.
- Calibration:** Check sources locally obtained.
- See Manual:** User sets calibration factor based on distance between the ground and the detector.
- Calibration Menu:** User creates calibration menu based on tested key nuclides see instruction manual.



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# FLOOR MONITOR ~ GAMMA AND BETA

## Model Series ~ GBFM

### Models ~ GBFM-1 & GBFM-2

#### ELECTRONICS - GBFM-1

- **Data Output:** Laptop Electronics With Software and USB port.
- **Alarm:** Audio / Visual, Low Battery Warning – User Settable
- **Temperature:** 14 F TO 104 F (-10 C° to 40° C)
- **Power:** Rechargeable batteries and Charger.  
Charger Power: 220 AC and 380 AC
- **Battery Life:** Rechargeable Batteries (200 hours).
- **Construction:** All plug-in circuit cards, essentially no wires. Rugged, lightweight
- **Menu:** Tested key nuclides – user created
- **Options:** RS-232 serial port
  - Other connectors - MHV etc.

#### SPECIFICATIONS:

##### GBFM-2 Gamma and Beta Floor Monitor:

- **DETECTOR:** Gamma / Beta Scintillation Panel  
Single PM tube  
29 sq. inches coverage in 24-inch swath (900cm<sup>2</sup>).
- **Detection Limit:** 0.1 Bq/cm<sup>2</sup>
- **Dimensions:** 4" H x 24 "W x 4" (10 x 61 x 10 cm)
- **Alarm:** Settable for each channel; separate red LED's, shared audio alarm
- **Detector Holder:** 3 Wheels  
Detector adjustable height above floor.  
Adjustable handle, minimum 43" (110 cm) height  
Electronics Bracket
- **OPTIONAL:** Lead Shielding Plate
- **Weight:** 8.2 lbs (4 kg) with Shielding  
4.4 lbs (2 kg) without shielding

#### ELECTRONICS GBFM-2 - PRS-2F:

- **Data Output:** Dual Display. **OPTIONAL:** USB / RS-232 SERIAL OUTPUTS
- **Alarm:** Audio / Visual, Low Battery Warning – User Settable
- **Temperature:** 14° F to 104° F (-10 C° 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" (8 X 11 X 18 CM) long excluding probe holder and handle



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