

The FLM-3 Floor Monitor consists of a Delta 5 ratemeter and a choice of ruggedized 600 cm<sup>2</sup> scintillation probes for alphas, betas, or alphas and betas simultaneously.

## FLM3

### Floor Monitor



- Highly mobile, light-weight assembly
- Rapid, sensitive monitoring
- Includes background subtract, alarm settings and integrate mode
- Steel roller balls for smooth floors fitted as standard

The FLM3 Floor Monitor is suitable for monitoring large areas and surfaces for radioactive material. It is ideal for rapid, sensitive monitoring of controlled areas, truck beds, entrance rugs and similar applications. Enclosed ball cages are fitted to the standard monitor giving high mobility on flat surfaces. They provide complete freedom of movement in all directions with essentially total coverage including corners and edges. An optional external wheel mounting kit is available. It has alternative height settings and is used on uneven surfaces where extra window protection is desirable. The Monitor consists of a

sensitive scintillation probe with a 600 cm<sup>2</sup> radiation window, protected by a rugged hex-mesh grill, plus a standard Delta 5 microprocessor-based ratemeter. Count rates are shown on a large, clear display. Additional features such as background subtraction, pre-settable alarms and integrated counts are used to increase the measurement precision. Audible signals occur for each particle detected. Headphones, for use in noisy environments, are included as standard.

The hinged handle and sturdy, durable, light-weight housing provide for effortless monitoring even over long periods of use. The FLM3 is available in different versions to improve the radiation selectivity Three versions are supplied as standard:

- FLM3A for alpha
- FLM3B for beta
- FLM3D dual channel for alpha and beta

## FLM3 Specifications

### TECHNICAL SPECIFICATIONS

DETECTOR	FLM3A	FLM3B	FLM3D
Radiation detected:	Alpha	Beta	Alpha and Beta
Window area:	30 x 20 cm (12" x 8")	30 x 20 cm (12" x 8")	30 x 20 cm (12" x 8")
Window thickness:	1.2 mg.cm <sup>2</sup>	1.2 mg.cm <sup>2</sup>	1.2 mg.cm <sup>2</sup>
Efficiencies:	% surface emission counted hem a 15 x 10 cm source placed centrally on the grill		
241Am (a):	31%	-	28%
36Cl (b):	-	36%	31%
90Sr/90Y (b):	-	42%	36 %
60Co (b/g):	-	19%	12%
γ responses:	-	250 cps/mSv/h	180 cps/mSv/h
α channel background:	<0.2 cps	-	<0.2 cps
β channel background:	-	28 cps	20 cps
Grill:	Hex mesh, 80% transmission		

### ON-BOARD DELTA 5 RATEMETER

- Ranges, 0.1 cps to 100,000 cps, or 1 cpm to 1,000,000 cpm
- High-contrast analog and digital liquid crystal display
- Alpha, beta, or alpha plus beta display modes
- Choice of displayed units
- Count rate mode
- Integrate mode
- Background store and subtract mode
- Setup mode with calibration facility
- Audio with alarm settings

Headphones:	Light weight, CD quality, stereo headphones with 3.5 mm (0.14") jack connection to Delta 5
Temperature:	0 to 40°C (32 to 104°F)
Humidity:	up to 95% RH, non-condensing

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