

## FM 6150 K FLOOR MONITOR

The FM 6150 K is a compact, convenient floor monitor from Southern Scientific based on the reliable Automess 6150AD K contamination monitor.

The sealed proportional counting tube gives very good efficiency for  $^{90}\text{Sr}/^{90}\text{Y}$  and other alpha and beta emitters like  $^{241}\text{Am}$ ,  $^{60}\text{Co}$ ,  $^{137}\text{Cs}$ ,  $^{131}\text{I}$  and  $^{36}\text{Cl}$ . Being sealed it requires no filing or flushing.

An adjustable handle and two small wheels make the FM 6150 K easy to manoeuvre around obstacles and under benches or tables, even up walls, going where larger heavier floor monitors can't. The rate meter can be slotted in or connected via a 1m cable or longer.

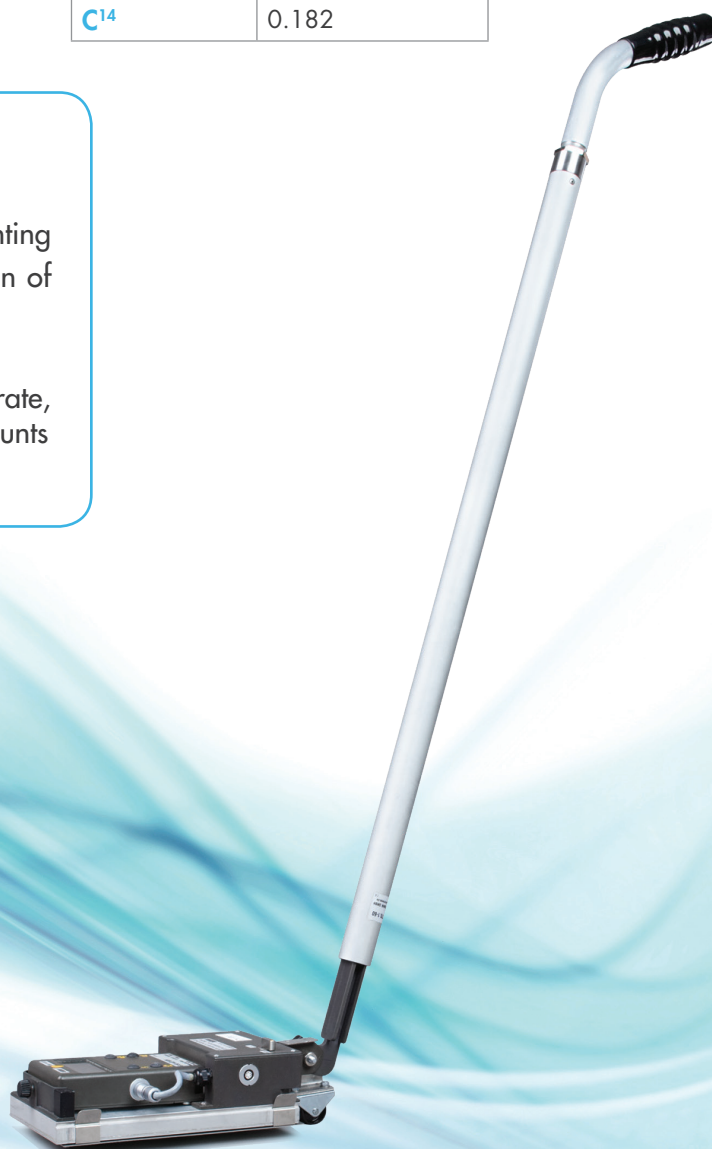
In 10 seconds the handle is detached and the contamination monitor can be used on clothing, hands, shoes and work surfaces.

### Calibration factors in $\alpha\beta\gamma$ mode:

ISOTOPE	$1\text{ s}^{-1}=\text{Bq}/\text{cm}^2$
$^{241}\text{Am}$	0.056
$^{60}\text{Co}$	0.058
$^{137}\text{Cs}$	0.026
$^{131}\text{I}$	0.026
$^{36}\text{Cl}$	0.026
$^{90}\text{Sr}$	0.011
$\text{C}^{14}$	0.182

## FEATURES

- Light Weight
- 100cm<sup>2</sup> Active area
- Switch for Alpha / Beta / Gamma counting
- Microprocessor controlled compensation of detector
- Automatic range switching
- View count rate, average count rate, maximum count rate or accumulated counts
- Settable alarm thresholds





## 6150AD RATE METER

This sturdy dose rate meter is easily detachable providing a complete separate instrument which can be used independently of the floor monitor.

## FM 6150 K SPECIFICATIONS

<b>Radiation Detector</b>	Large area, proportional counting tube, sealed.
<b>Counting Tube Filing</b>	Inert gas mixture
<b>Counting Tube Dimensions</b>	170 x 100 mm
<b>Counting Tube Active Area</b>	100 cm <sup>2</sup> , 2.75 mg/cm <sup>2</sup> aluminium
<b>Operating Modes</b>	Alpha measurement Alpha/Beta/Gamma measurement
<b>Discriminator Plate</b>	1 mm Stainless Steel
<b>Background with Ambient Radiation</b>	Approx. 0.05 s <sup>-1</sup> in a mode and approx. 6 s <sup>-1</sup> in αβγ mode
<b>Pulse Rate Display</b>	0.01 s <sup>-1</sup> to approx. 40,000 s <sup>-1</sup>
<b>Over Range Response</b>	Display flashes
<b>Display Range for Average Value</b>	0.001 s <sup>-1</sup> to 9999 s <sup>-1</sup>
<b>Display Range for Max. Value</b>	0.01 to 9.99 ks <sup>-1</sup>
<b>Display Range for Total Counts</b>	1 to 999k
<b>Pulse Rate Alarm Thresholds</b>	Freely programmable
<b>Temperature Range</b>	-15°C to +50°C
<b>Power Supply</b>	Via 6150AD rate meter, giving 500 hrs of normal use
<b>Dimensions</b>	210 x 120 x 90 mm
<b>Handle Length</b>	770 mm
<b>Weight</b>	2 kg



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