

Features –

- Audible indication of radiation intensity
- Presettable audible alarm
- Battery or AC operation using a separate power unit
- Lightweight aluminium case
- Supplied with alkaline batteries, manual and test/calibration certificate

A MINI 900 RADIATION MONITORS

The Mini 900R, G and D radiation monitors are equipped with energy compensated GM probes. The 900X uses an uncompensated probe to extend the low energy response. All comply with IEC395 requirements.

B MINI 900 CONTAMINATION MONITORS

All Mini 900 contamination monitors comply with IEC325 requirements. The Type E and Type EP range are equipped with thin end-window GM probes suitable for detecting soft beta radiation, e.g. from ¹⁴C.

C MINI 900 SCINTILLATION MONITORS

These monitors have logarithmically scaled meters with 0.5 s⁻¹ to 5,000 s⁻¹ markings and comply with IEC325 requirements. The Type 42 and Type 44 ranges are equipped with thin end-windows scintillation probes suitable for detecting soft X-rays. The 44B provides enhanced X-ray performance below 10 keV.

Mini 900 Series Ratemeters

Mini 900 radiation monitors are well established in education, medicine and industry as reliable, convenient and inexpensive. They are equipped with a choice of GM probe, matching logarithmically scaled meter and extensible cable. Mini 900E and Mini 900EP15 are available scaled in counts per second or counts per minute.



MINI 900 Series for Radiation Control

Type	Scale Range	Energy Range	GM Detector	Radiations
900R	0.5 – 500 mSv ⁻¹	45 keV – >1.5 MeV	Compensated	Gamma X-Rays (>75 kVp source)
900G	0.5 – 500 mSv ⁻¹	55 keV – >1.5 MeV	Compensated	Gamma only
900D	0.5 – 1,000 mSv ⁻¹	30 keV – >1.5 MeV	Partially Compensated	Gamma X-Rays (>45 kVp source)
900X	0.5 – 2,000 s ⁻¹	>10 keV	Uncompensated	X-Rays (as a relative check device)

MINI 900/2SL Environmental Dose Rate Meter – Page 10.

MINI 900 Series for Contamination Control

Type	Window	Sensitivities			
		Alpha (²³⁸ Pu)	Beta (¹⁴ C)	Beta (⁹⁰ Sr/ ⁹⁰ Y)	Gamma (¹³⁷ Cs)
E	6.4 cm ²	0.6 s ⁻¹ for 1 Bqcm ⁻²	0.7 s ⁻¹ for 1 Bqcm ⁻²	1.8 s ⁻¹ for 1 Bqcm ⁻²	2.2 s ⁻¹ for 1 mSv ⁻¹
EP15FL	15.5 cm ²	0.9 s ⁻¹ for 1 Bqcm ⁻²	1.3 s ⁻¹ for 1 Bqcm ⁻²	4.0 s ⁻¹ for 1 Bqcm ⁻²	5.0 s ⁻¹ for 1 mSv ⁻¹
EP15	15.5 cm ²	0.9 s ⁻¹ for 1 Bqcm ⁻²	1.3 s ⁻¹ for 1 Bqcm ⁻²	4.0 s ⁻¹ for 1 Bqcm ⁻²	5.0 s ⁻¹ for 1 mSv ⁻¹
<i>Replacement for Type EL</i>					
EP100	100cm ²	6 s ⁻¹ for 1 Bqcm ⁻²	30 s ⁻¹ for 1 Bqcm ⁻²	49 s ⁻¹ for 1 Bqcm ⁻²	25 s ⁻¹ for 1 mSv ⁻¹
S	6.4 cm sensitive length	–	–	1 s ⁻¹ for 1 Bqcm ⁻²	5 s ⁻¹ for 1 mSv ⁻¹
SL	12.0 cm sensitive length	–	–	2 s ⁻¹ for 1 Bqcm ⁻²	10 s ⁻¹ for 1 mSv ⁻¹ (⁶⁰ Co)

Scintillation Probes for Contamination Control

Type	Approximate Sensitivities		
	Radiation	Contamination	Background
41	1,000 s ⁻¹ due to 10 μSv ⁻¹ (¹³⁷ Cs)	130 s ⁻¹ due to 3.7 kBq ^{99m} Tc at 20 mm	3 – 8 s ⁻¹
41S	3,500 s ⁻¹ due to 10 μSv ⁻¹ (¹³⁷ Cs)	–	20 – 30 s ⁻¹
42A	–	330 s ⁻¹ due to 3.7 kBq ¹²⁵ I at 20 mm	2 – 3 s ⁻¹
44A	–	3.8 s ⁻¹ due to 3.7 kBq ¹²⁵ I at 20 mm	4 – 8 s ⁻¹
44A	–	1.6 s ⁻¹ due to 3.7 kBq ^{99m} Tc at 20 mm	–
44A	–	1.4 s ⁻¹ due to 3.7 kBq ⁵⁷ Co at 20 mm	–
44B	–	180 s ⁻¹ due to 3.7 kBq ⁵⁹ Fe at 10 mm	–

• See the Mini Instrument Selector Chart on page 22