

Mini 900 Scintillation Monitors



The 900 Series of radiation counters are well established in teaching, research, hospital and industrial laboratories. Their reliability and convenient design are particularly attractive for industrial hygiene applications or where budgets are tight.

Product Detail

Type 41

Sodium iodide crystal 19 mm dia. by 25 mm thick. Suitable for energies from 25 keV upwards. A lead cylinder surrounds the crystal giving the probe directional properties as well as reducing background. Diameter 41 mm Length 220 mm.

Type 41S

Similar to type 41 but without lead shielding and with a larger sodium iodide crystal (25 mm dia. by 38 mm thick) for increased sensitivity. Suitable for energies from 25 keV upwards. The probe is essentially omni-directional for medium and high energy gamma radiation. Diameter 38 mm Length 217 mm.

Type 44A

The sodium iodide crystal (32 mm dia. by 2.5 mm thick) is mounted on the front surface of the probe to facilitate monitoring of large contaminated areas. It is suitable for a range of energies from approximately 15 keV to 250 keV. It is also beta sensitive for energies above 500 keV. Diameter 50 mm Length 180 mm. Aluminum window weight 14 mg cm^{-2} .

Type 44B

This probe is the beryllium window version of the above and extends the sensitivity down to approximately 5 keV, making it useful for ^{55}Fe .

[3.7 kBq (0.1 μCi) of ^{55}Fe at 10 mm yields approx 180 counts s^{-1} .]

Window weight 47 mg cm^{-2} .

Comparison Table

	Approximate Sensitivities		
	Radiation	Contamination	Background
900/41	1,000 s ⁻¹ due to 10 μSv h ⁻¹ (¹³⁷ Cs)	130 s ⁻¹ due to 3.7 kBq ⁹⁹ Tc at 20mm	3 to 8 s ⁻¹
900/41S	3,500 s ⁻¹ due to 10 μSv h ⁻¹ (¹³⁷ Cs)	-	20 to 30 s ⁻¹
900/44A -		1.6 s ⁻¹ due to 3.7 kBq ⁹⁹ Tc at 20mm 1.4 s ⁻¹ due to 3.7 kBq ⁵⁷ Co at 20mm	4 to 8 s ⁻¹
900/44B -		180 s ⁻¹ due to 3.7 kBq ⁵⁵ Fe at 10mm	-

For yderligere information omkring dette produkt kontakt venligst :

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