

Product Datasheet

SS340

Dose Rate Probe

The SS340 is a side-window Geiger-Müller probe for ambient gamma radiation measurement to H*(10).

Dose-rate range is 0.1 $\mu\text{Sv/h}$ - 2 mSv/hr and energy range 45 keV - 1.5 MeV.



Specifications

General	
Operating Voltage	450 V
Dose Rate Range*	0.1 $\mu\text{Sv/hr}$ - 2 mSv/hr
Plateau Length	200 V minimum
Temperature Range	-10°C to +50°C
Gamma Sensitivity	Typically 2 cps/ $\mu\text{Sv/hr}$
Energy Range	H*(10) for 45 keV - 1.5 MeV
Connector Type	MHV
Dimensions	\varnothing 1" x 5" (25 x 135 mm)
Active Area	40 mm tube length
Mass	100 g

*Dose rate probes are set up to read in $\mu\text{Sv/hr}$ by default. For measurements in rem/hr, please specify at point of order.

Efficiencies

(Listed as percentage of 2π emission rate)

Nuclide	Emission	Efficiency
²⁴¹ Am	α	29.1%
²³⁸ Pu	α	26.6%
Nat U	α	63.5%
⁹⁰ Sr/ ⁹⁰ Y	β	56.7%
¹⁴ C	β	19.4%
³⁶ Cl	β	59.1%
²³⁸ Pu	β	25.8%
⁶⁰ Co	β	36.2%
¹³⁷ Cs	β	50.6%

Southern Scientific Limited

Scientific House, The Henfield Business Park
Shoreham Road, Henfield, BN5 9SL, UK

E-mail: info@southernscientific.co.uk

Tel: +44 (0)1273 497600

Fax: +44 (0)1273 497626

www.southernscientific.co.uk

A LabLogic Group Company



**Southern
Scientific**

EXPERIENCE & EXPERTISE

1836-00-DS iss. 1.2 July 2021