

# Product Datasheet

# SS330/335/340

## Dose Rate Probes

The SS330 probe is an excellent general purpose end window compensated pancake Geiger-Müller probe with H\*(10) energy compensation, which permits reliable measurements from ambient background up to 1 mSv/hr.



SS330

SS335

The SS335 probe is functionally identical to the SS330, but with a different probe geometry.

## Specifications

General	
Operating Voltage	550 V
Measurement Range	0.1 mSv/hr - 1 mSv/hr
Plateau Length	150 V minimum
Dead Time	100 $\mu$ s
Temperature Range	-10°C to +50°C
Gamma Sensitivity	Typically 5 cps/ $\mu$ Sv/hr
Energy Sensitivity	H*(10) for 20 keV - 1.5 MeV
Housing Connector	MHV
Dimensions	$\varnothing$ 3" x 10" x 2.5" (70 x 254 x 64 mm)
Active Area	2 in <sup>2</sup> (15.5 cm <sup>2</sup> )
Weight	11 oz (300 g)

## Efficiencies

(Listed as percentage of  $2\pi$  emission rate)

Nuclide	Emission	Efficiency
<sup>241</sup> Am	$\alpha$	29.1%
<sup>238</sup> Pu	$\alpha$	26.6%
Nat U	$\alpha$	63.5%
<sup>90</sup> Sr/ <sup>90</sup> Y	$\beta$	56.7%
<sup>14</sup> C	$\beta$	19.4%
<sup>36</sup> Cl	$\beta$	59.1%
<sup>238</sup> Pu	$\beta$	25.8%
<sup>60</sup> Co	$\beta$	36.2%
<sup>137</sup> Cs	$\beta$	50.6%

# 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  $\mu\text{Sv/h}$  - 2 mSv/hr  
and energy range 45 keV - 2 MeV.



## Specifications

General	
Operating Voltage	450 V
Dose Rate Range*	0 $\mu\text{Sv/hr}$ - 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 - 2 MeV
Connector Type	MHV
Dimensions	$\varnothing$ 1" x 5" (25 x 135 mm)
Active Area	40 mm tube length
Weight	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  $2\pi$  emission rate)

Nuclide	Emission	Efficiency
$^{241}\text{Am}$	$\alpha$	29.1%
$^{238}\text{Pu}$	$\alpha$	26.6%
Nat U	$\alpha$	63.5%
$^{90}\text{Sr}/^{90}\text{Y}$	$\beta$	56.7%
$^{14}\text{C}$	$\beta$	19.4%
$^{36}\text{Cl}$	$\beta$	59.1%
$^{238}\text{Pu}$	$\beta$	25.8%
$^{60}\text{Co}$	$\beta$	36.2%
$^{137}\text{Cs}$	$\beta$	50.6%

### Europe & Worldwide

#### LabLogic Systems Limited

Innovation House, 6 Europa View  
Sheffield, S9 1XH, UK

E-mail: [solutions@lablogic.com](mailto:solutions@lablogic.com)

Tel: +44 (0)114 266 7267

[www.lablogic.com](http://www.lablogic.com)

### USA & Canada

#### LabLogic Systems, Inc.

3901 Centerview Drive, Suite B  
Chantilly, VA 20151, USA

E-mail: [solutions@lablogic.com](mailto:solutions@lablogic.com)

Tel: +1-703-429-4209

[www.lablogic.com](http://www.lablogic.com)



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