

Product Datasheet

SS300/315

Contamination Probes

The SS300 and SS315 are uncompensated pancake Geiger-based probes for alpha beta and gamma contamination measurement.

SS315

SS300

The SS315 is functionally identical to the SS300, but with a different probe geometry.

Specifications

General	
Operating Voltage	550 V
Window	2 in ² (15.5 cm ²) 1.6 to 2.0 mg/cm ² mica
Measurement Range	0 - 5 kcps
Plateau Length	150 V
Temperature Range	-10°C to +50°C
Energy Response	20 keV - 2 MeV Gamma ≥ 40 keV Beta, > 3 MeV Alpha
Housing Connector	MHV
Dimensions	Ø 3" x 7" (70 x 180 mm)
Active Area	2 in ² (15.5 cm ²)
Weight	16 oz (450 g)

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%

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