

# 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 <sup>2</sup> (15.5 cm <sup>2</sup> ) 1.6 to 2.0 mg/cm <sup>2</sup> 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 <sup>2</sup> (15.5 cm <sup>2</sup> )
Weight	16 oz (450 g)

### Efficiencies

(Listed as percentage of 2π emission rate)

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

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