LUDLUM

RDS SABG Probe

GM pancake probe for contamination monitoring

Small handheld probe for the RDS Base Unit with a GM pancake tube and a 15.5 cm² detection area, for contamination monitoring. It comes with a removable clip-on cover for the front face; an aluminium-clad lead shield for high background areas is available as an option.



Detector type	Energy range	Count-rate range
Geiger-Mueller pancake tube [-1]	**Beta 100 keV – 5 MeV** [1]	**0–1.5 Mcpm** [1]

Specifications

DETECTOR

Detector type	Geiger-Mueller pancake tube	[1]
Window	15.5 cm² mica, protected by a stainless steel screen	[1]

PERFORMANCE

Background rate	60 cpm with shield, 100 cpm without (at 0.25 µSv/h)	[1]

MEASURING RANGE

Energy range	Beta 100 keV – 5 MeV	[1]
Count-rate range	0–1.5 Mcpm	[1]

POWER & BATTERY

Power supply	Supplied by the RDS Base Unit	[1]

MECHANICAL

Dimensions	14 × 7 × 12 cm (5.4 × 2.7 × 4.7 in)	[1]
Housing material	Anodised aluminium	[1]

ENVIRONMENT & RATINGS

Operating temperature	−30 to 50 °C	[1]
Storage temperature	−50 to 60 °C	[1]
Humidity	3–100% relative humidity	[1]
IP rating	IP67	[1]

ORDERING & ACCESSORIES

Part number	V038820	[1]

GENERAL

Minimum detectable concentration	100 Bq/cm²	[1]
Standards met	ANSI N42.17 and N42.34; MIL-STD 461F, 1686C and 810G	[1]

Sources

[1] **RDS SABG Probe data sheet (V038820)**
Ludlum Measurements · datasheet · p. 2, Radiological; p. 2, Radiological – Detection; p. 2, Radiological – Background · checked 2026-11-16
https://www.ludlum-slc.com/sabg-probe_v038820/

Every value is taken from the manufacturer's own document; the number after the value refers to the source list. Always check against the latest datasheet before ordering.

The data comes from the manufacturer's published documents. Manufacturers may change specifications; the current configuration and performance are confirmed in the quotation.