LUDLUM

RDS FIDLER Probe

FIDLER probe for low-energy X-ray and gamma radiation

FIDLER probe (Field Instrument for the Detection of Low Energy Radiation) for the RDS Base Unit with a thin, large NaI(Tl) crystal behind a beryllium window. A multichannel discriminator records four energy windows simultaneously, and the Base Unit shows two of them at a time.



Detector type	Count-rate range	Weight
NaI(Tl) scintillator, 127 mm diameter × 1.66 mm [1]	**0–1.5 Mcpm** [1]	**3.60 kg** [1]

Specifications

DETECTOR		
Detector type	NaI(Tl) scintillator, 127 mm diameter × 1.66 mm	[1]
Window	Beryllium, 127 mm diameter × 0.254 mm	[1]
MEASURING RANGE		
Count-rate range	0–1.5 Mcpm	[1]
ELECTRONICS & SIGNAL		
Detector high voltage	+1600 V maximum, internal voltage divider	[1]
POWER & BATTERY		
Power supply	Powered by the RDS Base Unit through the common probe cable	[1]
MECHANICAL		
Weight	3.60 kg	[1]
Housing material	Anodised aluminium	[1]
ENVIRONMENT & RATINGS		
Operating temperature	−30 to 50 °C	[1]
Storage temperature	−50 to 60 °C	[1]
Humidity	Maximum 95% (non-condensing)	[1]
IP rating	IP67	[1]
ORDERING & ACCESSORIES		
Part number	V038863	[1]
GENERAL		
Standards met	ANSI N42.17 and N42.34; MIL-STD 461F, 1686C and 810G	[1]

NATO Stock Number (NSN)	6665-01-671-4239	[1]

Sources

[1] **RDS FIDLER Probe data sheet (V038863)**
Ludlum Measurements · datasheet · p. 2, Radiological; p. 2, Radiological – Radiation Entrance Window; p. 2, Electrical · checked 2026-11-16
https://www.ludlum-slc.com/fidler-probe_v038863/

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.