ORTEC

INNOPROBE

Alpha/beta probe for the RADEAGLET-R

Handheld scintillation probe that extends the RADEAGLET-R to alpha and beta surface contamination measurements. It connects by USB, is powered by the instrument and can be attached or detached during operation; pulse shape discrimination separates alpha from beta.



Detector type
Alpha/beta-sensitive scintillator with photomultiplier (ZnS:Ag) [1]

Count-rate range
Up to 25 kcps alpha and 20 kcps beta [1]

Weight
300 g (0.66 lb) [1]

Specifications

DETECTOR

Radiation type	Alpha and beta	[1]
Detector type	Alpha/beta-sensitive scintillator with photomultiplier (ZnS:Ag)	[1]
Window	Mylar foil with honeycomb protective grid	[1]
Alpha/beta separation	Pulse shape discrimination (PSD) in a multichannel analyser with 4096 energy channels × 4096 width channels, a non-linear parametric window and Haykin adaptive optimisation	[1]

MEASURING RANGE

Count-rate range	Up to 25 kcps alpha and 20 kcps beta	[1]

CONNECTIVITY & INTERFACE

Communication	List mode; USB interrupt-mode transfer	[1]

POWER & BATTERY

Power supply	5 V, USB-powered by the RADEAGLET-R	[1]

MECHANICAL

Detector dimensions	ø50 mm (2.0 in)	[1]
Weight	300 g (0.66 lb)	[1]
Dimensions	169 × 68 mm (6.7 × 2.7 in); handle ø50 mm (2.0 in)	[1]

ENVIRONMENT & RATINGS

perating temperature	−30 °C to +70 °C	[1]
Operating time	8 hours for the RADEAGLET-R with the probe connected	[1]

ORDERING & ACCESSORIES

Part number	RTR-IP-2AB	[1]

GENERAL

Processor	High-performance, low-power FPGA subsystem coupled to a DSP	[1]
Compatibility	RADEAGLET-R; can be attached or detached during operation and is auto-calibrated	[1]

Sources

[1] **INNOPROBE Alpha/Beta Probe**
ORTEC (AMETEK) · brochure · p. 1; p. 2, Technical Specifications; p. 2, Technical Specifications; p. 1 · checked 2026-10-16
https://edge.sitecorecloud.io/ametekinc1236b-ametekb19a-productiondcfa-1d17/media/Project/Ametek/ortec-onlin...

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.