ORTEC

ORTEC 2BY2/3BY3

Integrated 2 × 2 and 3 × 3 in NaI(Tl) probes for field spectroscopy

Complete NaI(Tl) probes for in-field gamma spectroscopy: crystal, photomultiplier and PMT base with integral preamplifier and high voltage in a rugged aluminium housing. A single cable carries both power and signal; the DD versions connect directly to the digiDART or digiDART-LF.



Detector type

NaI(Tl) crystal with photomultiplier and PMT base with integral preamplifier and HV supply, in an a luminium housing [1]

Specifications

Detector type	NaI(Tl) crystal with photomultiplier and PMT base with integral preamplifier and HV supply, in an aluminium housing	[1]
Crystal dimensions	2 × 2 in (2BY2, 2BY2-DD) or 3 × 3 in (3BY3, 3BY3-DD)	[1]
PMT base	296 ScintiPack with low-power adjustable high-voltage supply, active bias network and charge-sensing preamplifier	[1]
Power supply	2BY2/3BY3: +12 V at 20 mA (240 mW) via a captive cord with a standard preamplifier power plug (9-pin D), nominally 3 m	[1]
Compatible instruments	DD versions: directly to the digiDART and digiDART-LF (also other ORTEC D SP spectrometers); 2BY2/3BY3: amplifiers with a standard preamplifier p ower connector	[1]
Net weight	2BY2/2BY2-DD: 2.5 kg; 3BY3/3BY3-DD: 4 kg	[1]
Dimensions	2BY2/2BY2-DD: 35.5 cm long × Ø7.62 cm; 3BY3/3BY3-DD: 38.9 cm long × Ø10.2 cm	[1]

Sources

[1] **2BY2/2BY2-DD and 3BY3/3BY3-DD Integral NaI(Tl) Scintillation Radiation Detector**
RTEC (AMETEK) · product-page · More Information – Everything You Need in One Compact Package; Ordering Information; More Information – U ltra Low Power · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/radiation-detectors/scintil...

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.