ORTEC

A-576 A-PAD alfaspektrometrikedja

NIM alpha spectroscopy chain

Complete alpha spectroscopy chain in a single-width NIM module for use with a silicon detector.



Selectable energy ranges
3–8; 4–7; 3–5; 4–6; 5–7; 6–8 MeV [2]

Net weight
0.9 kg [2]

Specifications

PERFORMANCE

Detector and electronic noise	<25 keV FWHM with R Series 300/450 mm²; <35 keV with 600/900 mm²; <2 ft RG-62A/U cable	[2]

MEASURING RANGE

Selectable energy ranges	3–8; 4–7; 3–5; 4–6; 5–7; 6–8 MeV	[2]

ELECTRONICS & SIGNAL

Detector bias	0 to ±100 V, adjustable; jumper-selected polarity	[2]
Pulse shaping	0.5 µs semi-Gaussian active-filter shaping; output pulse stretched to 4 µs width	[2]
Test pulse energy	5/6/7 MeV, internal jumper	[2]
Test pulse frequency	100 Hz	[2]
Detector input	Front and rear BNC	[2]
Outputs	ENERGY: front/rear BNC; COUNT: positive NIM logic through front BNC	[2]

POWER & BATTERY

NIM power rails	+12 V/90 mA; −12 V/45 mA; +24 V/100 mA; −24 V/45 mA	[2]

MECHANICAL

Net weight	0.9 kg	[2]

GENERAL

Format	Single-width NIM	[1]
Functions	Preamplifier, amplifier, bias supply, discriminator and test pulser	[1]

Sources

[1] A-576 A-PAD Alpha Spectroscopy Chain
ORTEC (AMETEK) · product-page · More Information; Highlights · checked 2026-10-16
https://web.archive.org/web/20261016000000/https://www.ortec-online.com/products/radiation-detectors/alpha-s...

[2] Model A-576 A-PAD Preamplifier, Amplifier, Discriminator with Bias Supply – Operating and Service Manual (Rev. D)
ORTEC (AMETEK) · manual · p. 2, 2.1 Performance – Energy Ranges; p. 2, 2.1 Performance / 2.2 Controls; p. 2, 2.1 Performance – Pulse Shaping · checked 2026-10-16
https://web.archive.org/web/20260614001927/https://www.ortec-online.com/-/media/ametekortec/manuals/a/a-576-...

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.