ORTEC

digiBASE

MCA and PMT base for nai(tl)

A compact PMT base for gamma spectroscopy with NaI(Tl) detectors. The USB-connected unit combines a preamplifier, detector bias supply and digital MCA.



Detector type	Spectrum channels	Weight
NaI(Tl) scintillation detectors [1]	**,024** [1]	**280 g, digiBASE only** [1]

Specifications

DETECTOR		
Detector type	NaI(Tl) scintillation detectors	[1]
ELECTRONICS & SIGNAL		
Spectrum channels	1,024	[1]
Detector bias	0 to +1,200 V DC, 1.25 V steps	[1]
CONNECTIVITY & INTERFACE		
Communication	USB 1.1, 12 Mbit/s	[1]
POWER & BATTERY		
Power supply	<500 mA via USB cable	[1]
MECHANICAL		
Dimensions	Ø63.8 × 80 mm	[1]
Weight	280 g, digiBASE only	[1]
ENVIRONMENT & RATINGS		
perating temperature	−10 to +50 °C; at least 0 °C at startup	[1]
GENERAL		
PMT base	14-pin PMT base	[1]
Acquisition modes	Histogram and list mode	[1]
List-mode timestamp	1 µs time resolution	[1]
Spectrum stabilization	Built-in gain and offset stabilization using reference peak	[1]

Sources

[1] **digiBASE – 14-Pin PMT Tube Base with Integrated Bias Supply, Preamplifier, and MCA (with Digital Signal Processing) for NaI Spectroscopy**
ORTEC (AMETEK) · datasheet · p. 2, introduction; p. 3, Specifications – Performance; p. 4, Specifications · 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.