ORTEC

ORTEC 460

Spectroscopy amplifier

Delay-line shaping for energy and time spectroscopy, including scintillation detectors and pulse-shape analysis.



Gain	Integration time constants	Delay lines
Coarse 10–1000 × fine 0.3–1 [1]	**.04; 0.1; 0.25 µs** [1]	**1 µs; both lines** [1]

Specifications

PERFORMANCE

Integral nonlinearity	≤±0.05 %	[1]
Input noise	≤20 µV rms; 0.25 µs, gain 1000	[1]

MEASURING RANGE

Linear maximum input	3.3 V	[1]
Linear unipolar output	0–+10 V	[1]

ELECTRONICS & SIGNAL

Gain	Coarse 10–1000 × fine 0.3–1	[1]
Integration time constants	0.04; 0.1; 0.25 µs	[1]
Input impedance	Approximately 1000 Ω; DC-coupled	[1]

ENVIRONMENT & RATINGS

Temperature range for stability specification	0–50 °C	[1]

GENERAL

Delay lines	1 µs; both lines	[1]

Sources

[1] **460 Delay Line Amplifier**
ORTEC (AMETEK) · datasheet · p. 1, Specifications – Performance; p. 2, Input; p. 2, Input (product page S54 shows '日 · 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.