ORTEC

ORTEC 590A

Amplifier and timing SCA

Amplifier and timing single-channel analyzer in one NIM module for energy selection and counting.



Gain	Shaping time constants	Integral nonlinearity
5–1250 [1]	**.5; 1.5; 3 µs** [1]	**<±0.05 % at 1.5 µs** [1]

Specifications

PERFORMANCE

Integral nonlinearity	<±0.05 % at 1.5 µs	[1]
Equivalent input noise	<5 µV rms at 3 µs; ≤7 µV at 1.5 µs; unipolar, gain ≥100	[1]
SCA pulse pair resolving time	≤2 µs; shaping 0.5 µs	[1]

MEASURING RANGE

Linear unipolar output	0–+10 V	[1]
SCA dynamic range	200:1	[1]

ELECTRONICS & SIGNAL

Gain	5–1250	[1]
Shaping time constants	0.5; 1.5; 3 µs	[1]
Input polarity	Positive or negative	[1]
Minimum SCA threshold	50 mV	[1]

GENERAL

Module format	Single-width NIM	[1]

Sources

[1] **590A Amplifier and Timing Single-Channel Analyzer**
RTEC (AMETEK) · datasheet · p. 1, Amplifier – Performance; p. 1, Amplifier – Controls; p. 2, Amplifier – Output · 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.