ORTEC

ORTEC 462

Time calibrator

Calibrates time-to-amplitude converters with start and stop signals separated by multiples of a selected period, with adjustable repetition rate.



Selectable calibration periods	Calibration range	Absolute accuracy, 10 ns period
10, 20, 40, 80, 160, 320, 640 ns; 1.28, 2.56, 5.12, 10.24 µs [1]	**80 ns–81.92 µs** [1]	**±10 ps** [1]

Specifications

Selectable calibration periods	10, 20, 40, 80, 160, 320, 640 ns; 1.28, 2.56, 5.12, 10.24 µs	[1]
Calibration range	80 ns–81.92 µs	[1]
Absolute accuracy, 10 ns period	±10 ps	[1]
Accuracy, other periods	±0.005% of total period (all other period selections)	[1]
Period temperature instability	<±10 ppm/°C of selected period	[1]
Annual period instability	100 ppm/year	[1]
Adjustable repetition rate	Approximately 100–50 000 counts/s	[1]
Module format	Double-width NIM	[1]

Sources

[1] **462 Time Calibrator**
RTEC (AMETEK) · datasheet · p. 1, Controls (PERIOD); p. 1, Controls (RANGE); p. 1, Specifications – Calibration Period Accuracy · 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.