

Digital Delay Generator

AC-DDG-4

AtomTrace brings you one of the core components of every LIBS system - the Digital Delay Generator.

AC-DDG-4 has been designed and optimized for the LIBS while keeping a high price-performance ratio. Basic version has 4 trigger outputs and many more can be gained by combining more pieces of DDG.



Specification

Period t1 - t4	Pulse length 100 ns to 1000 s, Time delay 0 to 1000 s Resolution 10 ns Precision typ. 5 ns ± 100 ppm
Input TRIG/GATE	Trigger level 0.2 to 24.0 V (+ 0.2 V + 3%) Impedance 5.4 kOhm Termination 50 Ohm Jitter typ. < 10 ns (RMS)
Outputs (Ch A - Ch D)	Switchable output level 3.3 / 5 V Impedance 50 Ω
Communication	USB (SCPI commands)
Output mode	Independent continuous or single shot mode for each output
Mechanical mounting	Aluminium box, W×H×D 130×75×190 mm; Weight 1 kg
Input voltage	12-26 V DC
Power consumption	< 5 W
Operating temperature	5 - 35 °C, non-condensing
Package content	DDG Power supply, input: ~80-260 V, 50/60 Hz, adapters included 4 × BNC cable 2m Quick Start Guide Control software on the USB drive
Features on request	Communication over RS485 (binary commands). Arm channels of multiple DDG `s synchronously on the common control bus. Eurocard version, 100×160 mm, fits into the subrack format, height 3U, width 8HP. LabView® control libraries.