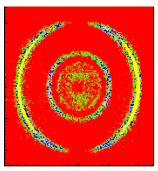
The G&D2 Gate-and-Delay Generator



RoentDek
Handels GmbH

Supersonic Gas Jets
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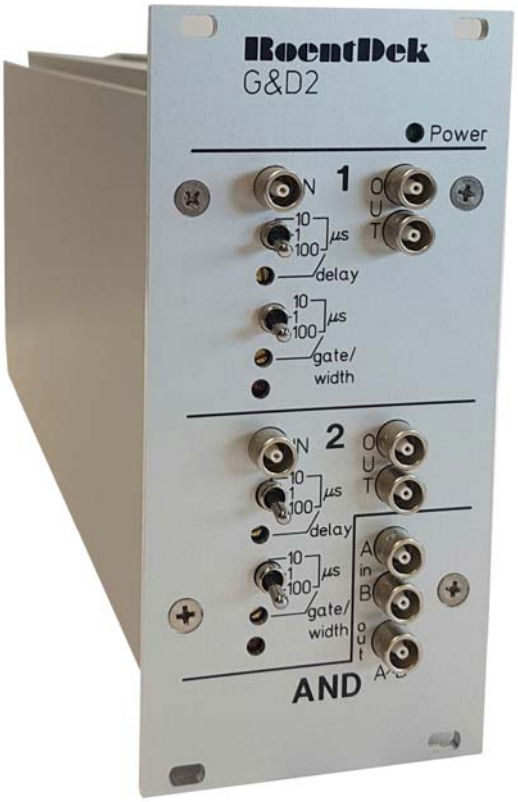
The **RoentDek G&D2** is a dual channel gate-and-delay generator for digital signals (NIM/TTL). Gate-and-delay generators are used in different fields (e.g. with laser system). Delay and gate width can be selected over ranges from <100 ns to 100 µs via switches and potis. Independently, the unit also features a logic *AND* function for two overlapping signals (NIM only).



Technical details:

- 19" 3HU unit (24x12.9x6.1 cm³), separate 12V mains adapter included (not shown)
- 2 G&D-channels plus 1 logic channel ('AND')
- **input:** NIM or TTL (50 Ω, 500 Ω or 1k impedance)
- **output 1:** NIM
- **output 2:** NIM (default) or inverted NIM, or TTL (50 Ω or 1 kΩ impedance)
- **delay:** approx. 70-800 ns / 0.2-10 µs / 1.5 - 100 µs (3 ranges)
- **gate width:** approx. 60-800 ns / 0.2-10 µs / 1.5 - 100 µs (3 ranges)
- **delay jitter:** <0.01% rms
- **delay drift:** <0.025% rms/°C (<0.015% rms/°C for 10 µs and 100 µs)
- **gate width jitter:** <0.01% rms
- **gate width drift:** <0.025% rms/°C (<0.013% rms/°C for 10 µs and 100 µs)
- red activity LED per channel

AND logic section:
- 2 inputs (NIM only)
- 1 output (NIM only)

- single-width NIM-unit version with 4 channels (plus *AND* function) available on request