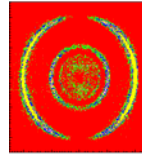


The APG1 pocket pulse generator

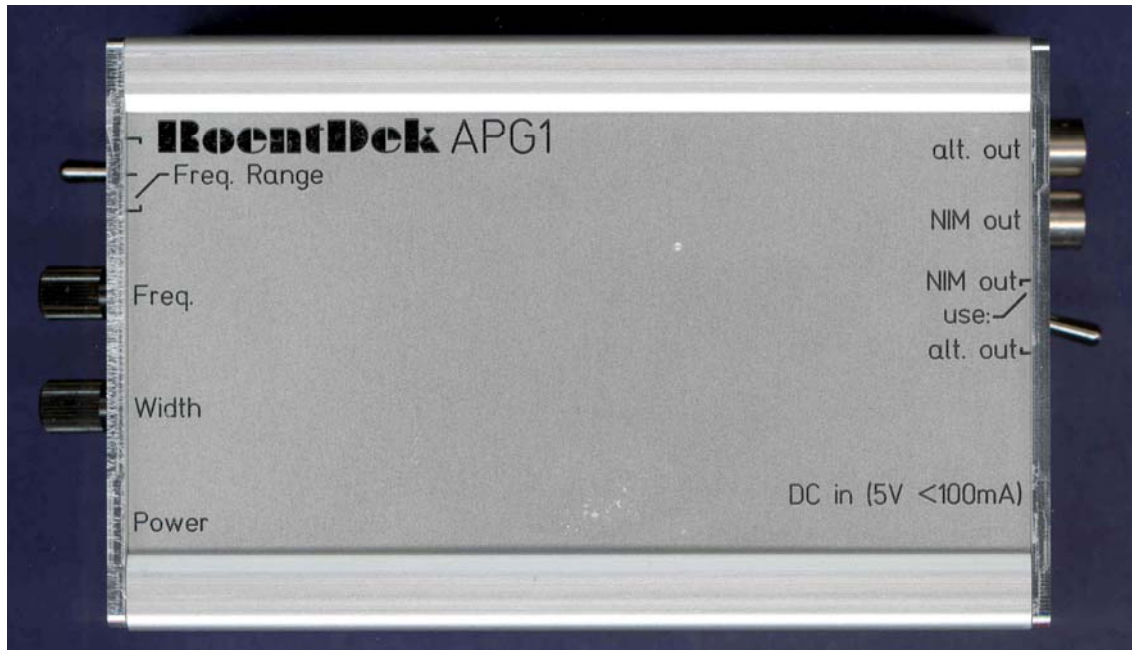


RoentDek
Handels GmbH
Supersonic Gas Jets
Detection Techniques
Data Acquisition Systems
Multifragment Imaging Systems

The **RoentDek APG1** is a “pocket” pulse generator for testing and adjusting pulse amplifier and logic electronics. It can be powered via an external +5V source or a standard USB port*. The power consumption is < 0.5 W (draws 60 mA from the USB port). Size (approx.): 120 mm x 65 mm x 40 mm Weight: 200g (approx.).

The outputs include a NIM signal (800mV negative, 50 Ohm impedance) with adjustable width between <10 and >30 ns (rise time <5 ns) and damped signals of same shape with -20 mV or -4 mV pulse height.

The pulse repetition rate can be adjusted between 20 kHz and 5 MHz, regulated by a potentiometer in three ranges (not stabilized).



*Figure: **RoentDek APG1**. Power LED, Potentiometers/ switch for adjusting signal width and frequency on the left side panel. Power input (standard USB B), signal outputs (via lemo 00 connectors) and pulse height selector switch on the right panel.*

Frequency ranges (approximately): 14 - 240 kHz, 80 - 1300 kHz, 610 - 7700 kHz

Pulse output: simultaneously NIM and -4 mV high signal with approximately 5-35 ns width or only -20 mV high signal with same width.

- Optional accessories:
- USB cable,
 - USB mains adapter (optionally battery-backed)
 - passive signal inverter and/or attenuator

* USB connection provides only the operation voltage, no control or readout functions.