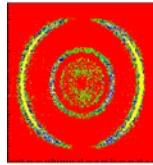


The MIXA2 amp with level shifter



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

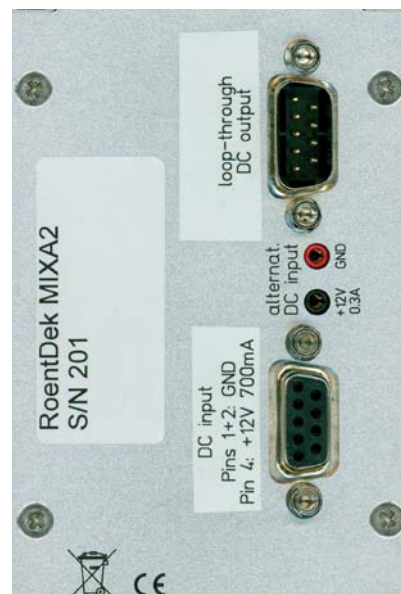
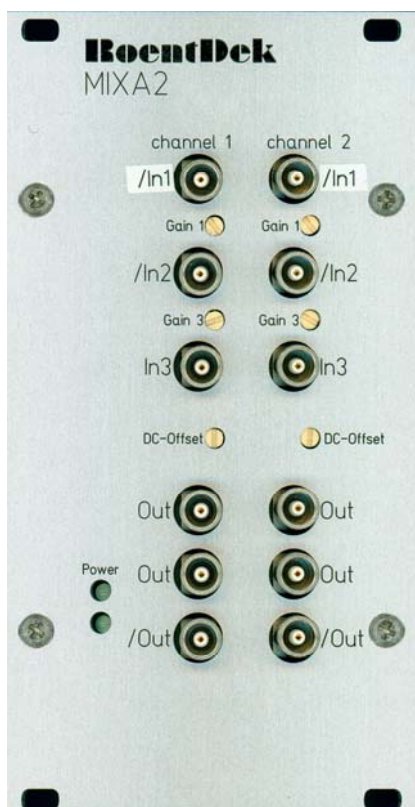
The **RoentDek MIXA2** is signal mixing amplifier for high frequency pulse signals as obtained from microchannel plate detectors and all kinds of secondary electron amplifiers (photomultiplier, channeltron, etc.) after pre-amplification (e.g. with **RoentDek FAMP** modules). Due to its bandwidth of 2-350 MHz and AC-coupled 50 Ohm impedance in-/outputs it is also useful to process AC-coupled NIM signals (-0.8V).

It can be used as an analog bipolar

- FAN in/Fan out
- Signal inverter
- Amplifier/Attenuator (gain 4x to 0.2x)
- Sum amplifier (signal mixer)

with 2 individual channels, each with 3 inputs and 3 outputs.

Each channel has an inverting (**/IN1**) and a non-inverting (**IN3**) input with an amplification gain between 0.2 and 4 (default: 1) plus an inverting input (**/IN2**) with fixed gain (=1). One of the three outputs is inverting (**/OUT**), two are non-inverting (**OUT**). Maximum input signal heights are ± 2 V. The DC level on the outputs can be shifted by ± 1 V via the respective **DC-Offset** potentiometer. The maximum linear output range is ± 2 V (including DC level)



Front panel (left) and back panel of MIXA2

The **MIXA2** module is designed as a standard 3HU case with (approx.) size 71mm x 128mm x 120mm (width x height x depth) and 600g weight (without power adapter). It comes with a mains power adapter for 100-250V AC. The power consumption is 0.7A at + 12V. Several modules can be daisy-chained via 9-pin sub-D connection cables.