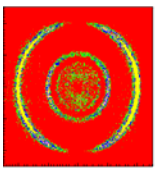
The DCA8 amp and level shifter



RoentDek
Handels GmbH

Supersonic Gas Jets
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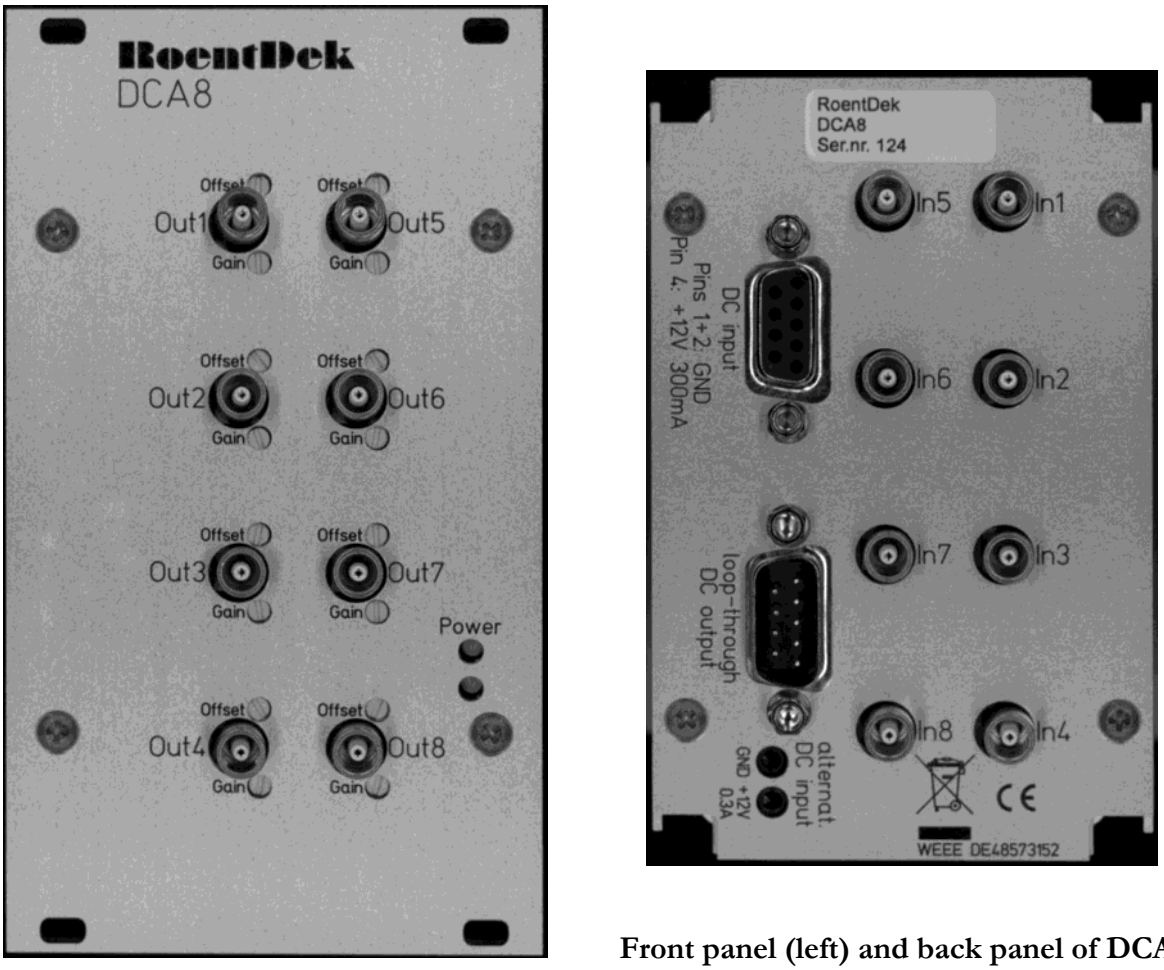
The **RoentDek DCA8** is an 8-channel amplifier and DC level shifter developed for matching the input range of an ADC unit such as the **RoentDek fADC** devices to the incoming signal height distribution. This includes amplifying or damping pulse height and shifting the output DC level so that the range of a given ADC input can be optimally used. The input bandwidth is approximately 300MHz with 50Ohm input impedance.



Front panel (left) and back panel of DCA8

Signals entered to the ***In*** sockets (Lemo 00 coax series) on the back panel will be changed in height by a factor between 0.1 and 2 on the ***Out*** sockets (front panel) depending on the ***GAIN*** potentiometer setting for the respective channel. The DC level on the outputs can individually be shifted by ±1V via the respective ***Offset*** potentiometer. The maximum linear input/output ranges are ±2V (including DC level. On demand, the input circuit can be equipped with protection diodes limiting transmission of maximum input pulse heights to the range of ±0.7V (factory-fixed).

The **DCA8** module is designed as a standard 3HU case with (approx.) size 71mm x 128mm x 120mm (width x height x depth) and 550g weight (without power adapter). It comes with a mains power adapter for 100-250V AC. The power consumption is 0.3A at + 12V. Several modules can be daisy-chained via 9-pin sub-D connection cables.