



The **RoentDek FAMP8** is an 8-channel amplifier for high frequency pulse signals as obtained from micro-channel plate detectors, certain read-out anodes (e.g.. delay-line) and various kinds of secondary electron amplifiers (photomultiplier, channeltron, etc.).

The 19" rack mount case (one height unit) hosts 8 individual bipolar amplifiers with a bandwidth of 200-300 MHz via an AC-coupled input (50 Ohm impedance, lemo00 connector) and both inverting/non-inverting outputs. The nominal amplification factor is about 55 and can be adjusted with potentiometers on the top lid for 6 of the channels within +/-10% and from 0 to 110% for 2 of the channels (7/8) with one potentiometer on the front panel. The maximum linear output signal height is approx. +/- 1.5 V. Amplification of inverting and non-inverting output may differ within 10%.\*

The unit has a power consumption of 30 Watt (2.5 A at +12V) and is equipped with an over-temperature protection. It comes with an external power supply for 100-250V AC (50-60Hz) mains power (typ. power consumption < 35 W).

Size (approx.): 484 mm x 45 mm x 202 mm (width x height x depth)

Insertion depth (including power connector): 262 mm

Weight: 1400g (without power adapter)



The **FAMP8** is especially suited for signal amplification of all **RoentDek** delay-line detectors with **FT12(16)TP** (or similar) signal decouplers.

It can be used for detector readout in combination with a CFD and TDC or with a fast ADC system (e.g. **FADC8**).

A single channel version of the same circuit is also available (**FAMP1+**)

\* Input impedance may vary when amplification is altered.