

# AMP 01-03

Preamplifier/Shaping Amplifier unit



## Short description + Technical Data

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The AMP01-03 combines a charge sensitive preamplifier and a pulse shaping amplifier in one small EMV resistant enclosure. Any standard detector with Microdot (TM) connector can be screwed in directly. The shaping time constant of the Gaussian pulses is fixed for optimised performance. The output signal level fits perfectly to the input range of the SARAD SPECTRA 50xx spectrometer series. NIM signal levels requiring an additional linear amplification (Gain = 5).

The AMP01-03 can be used inside the SARAD VacuTube vacuum chamber as well as for in situ measurements in ambient air.

The connection to the spectrometer is realised by a single cable. Because of the low power consumption, the AMP01-03 is an ideal choice for battery powered systems and OEM applications.

### Technical data

bias voltage range	0 .. +50 V
time to peak	5 $\mu$ s
peak width	12 $\mu$ s
output signal	approx. 200 mV/MeV (positive pulses, Gaussian shape)
power requirements	+/- 5V @ 10mA
detector connection	Microdot (TM) connector integrated into the enclosure
output connection	single cable (+5V, -5V, GND, Bias, Output)
dimensions	diameter 34 mm x 27 mm

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