



# PA-3000

Portable 3-channel  
IEPE signal conditioner

## ROGA PA-3000

The PA-3000 is a portable 3-channel IEPE signal conditioner. It has 4 mA/24 V supplies for sensors with integrated amplifiers. For low level signal amplification it features three selectable gain ranges and individually selectable highpass and lowpass filters for all three channels. Indicators for sensor condition and signal overload further minimize the risk of handling errors. The integrated rechargeable battery ensures a long operating time and the unit may be charged and operated at the same time. It is also possible to control all settings via PC using RS-232 interface.

The PA-3000 has a durable aluminum housing and a membrane keypad withstanding dust and moisture.

The low noise, wide dynamic range and excellent accuracy make the PA-3000 an excellent choice for demanding measurement applications.

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## TECHNICAL DATA:

Input/output channels	3 / 3
Input type	IEPE 4 mA/24 V with improved settling characteristics
Indicators for input open and short overload per channel	
Input impedance	100 KOhm AC-coupled
Output impedance	100 Ohm
Input gain	1, 10, 100 (0 dB, 20 dB, 40 dB)
SNR	> 90 dB (10 Hz – 22 KHz)
Distortion	< 0,1 %
Gain error	< 0,5 %
Gain drift	< 50 ppm/°C
Output range	20 Vpp
Offset error	< 10 mV on output (DC-coupled)
Filters	12 dB/oct, individually selectable on/off
High pass filter	10 Hz or custom
Low pass filter	1 KHz or custom
Battery	NiMh with internal charging, duration approx. 10 h
Control interface	RS232 using 3,5 mm jack to sub-D cable
Power supply	5V / 400 mA DC
Housing	extruded aluminium with dirt and moisture repelling membrane keypad
Dimensions	196 mm (l) x 110 mm (w) x 45 mm (h)
Weight	aprox. 850 g
Operating temperature	0 °C – 50 °C
Storage temperature	-10 °C – 60 °C
AC/DC adapter and RS232 cable are supplied with the unit	