



# PA-3000

## Portable 3-channel IEPE signal conditioner



The PA-3000 is a portable 3-channel IEPE signal conditioner.

It has 4mA/24V supplies for sensors with integrated amplifiers. For low level signal amplification it features three selectable gain ranges and individually selectable high-pass- and lowpassfilters 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:

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