



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:

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