

PA 3000DF

Triple channel portable conditioner with digitally controlled analog filters



DESCRIPTION

PA 3000DF is a triple channel portable conditioner with digitally controlled analog filters. The device is available in two versions: either with voltage inputs or with IEPE standard sensor inputs. The front panel features a clear LED display, which presents all information related to the device's configuration, as well as potential measurement chain overload. The module has also built-in sensor circuit diagnostics, which detects short and open circuits.

Each channel features independent digitally controlled analog filter. The filters have a slope of 12dB/oct. and can be configured as one of the following: low pass, high pass, band pass or band stop filter. Thanks to such a solution the measurement signal is free from distortions caused by digital filters. The built-in battery pack allows to perform measurements in the field, away from the power sources. The implemented communication interface makes it possible to change the modules settings remotely and facilitates the use of the PA 3000DF conditioner in automation systems.

SET INCLUDES:

- PA 3000DF conditioner
- power supply AC/DC
- 3 BNC-BNC cable
- user manual
- casing

PARAMETRY

Number of channels (in/out)	3/3
Input type	IEPE or voltage
Signaling	On/Off, Charging, Short/Open, Overload, Gain, Filters and their frequency, IEPE sensors powering
Input impedance	100 kΩ
Out impedance	100 Ω
Gain	x 1/0 dB x 10/20 dB x 100/40 dB
Gain error	< 0.5%
Gain drift	< 50 ppm/°C
SNR	> 90 dB (10 Hz - 22 kHz)
Frequency range	3 dB (3 Hz - 100 kHz)
Distortions	< 0.1 %
Output voltage range	20 V _{pp}
Filters	12 dB/oct., adjustable with a step of 1 Hz up to 4095 Hz, low pass, high pass, band pass, band stop
Battery	NiMh with an internal charger, operating time up to 8h
Communication interface	RS232, 3.5 mm
Power supply	DC, 12V/800 mA
Housing	aluminum with dust and moisture resistant keyboard (IP43), LCD display
Dimensions	196 mm x 110 mm x 45 mm
Weight	850 g
Operational temperature	0°C...+50°C
Storage temperature (excluding batteries)	-10°C...+60°C