



# ACCURATE & EASY TO USE

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sound measurement needs

**PQ 441-C**

MULTI-CHANNEL  
SIGNAL CONDITIONER

[www.placidinstruments.com](http://www.placidinstruments.com)



**PLACID INSTRUMENTS BV**

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# PLACID Multi-Channel Signal Conditioner PQ441-C



PQ Series portable dynamic signal conditioner is characterized by high sampling rate, high measurement accuracy, compact size and portability. **24  $\Delta$  -  $\Sigma$**  data acquisition chip, multi-channel synchronization and sampling frequency up to **88 kHz / per channel**. Customer can achieve the equipment control and data acquisition, signal analysis and other functions through supporting software SoundExpress.

## APPLICATION

- o Motor, machine tool or other power equipment
- o Aircraft, vehicles, ships or other traffic equipment
- o Large structures such as bridges, buildings and dams

## ENGINEERING APPLICATION

- o Vibration
- o Noise
- o Mode
- o Strain
- o Pressure
- o Voltage
- o Etc.



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## DATASHEET PLACID PQ441-C



Input Channels	4
Output Channels	4
PC Connection Method	USB
Programable Gain	x1, x10, x100 or 0 dB, 20 dB, 40 dB
Overload Indicator	Yes
Self noise	x1 gain -103 dB ref 1V, x10 gain -92 dB ref 1V, x100 gain -72 dB ref 1V
ICCP Power Supply (mA)	4 mA
A/D Converter (bit)	16/24
Max. Sampling Frequency (Hz)	88 kHz
Internal Noise (mVrms @±10V)	<0.03
Input Range (Vrms)	±10
Dynamic Range (dB)	110
Input Connector	BNC
Multi-cascade	Multi-cascade, synchronous
Power Requirement	220 VAC / 50 Hz
Power Requirement Internal	12 V
Size (cm)	9 (H) x 26 (L) x 37 (D)
Weight (kg)	2.7

*\* means customization function*



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