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PQ401-A/B

FOUR-CHANNEL DATA
COLLECTION DEVICE

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PLACID FOUR-CHANNEL DATA COLLECTION DEVICE

PQ401-A/B



INTRODUCTION

The PQ401-A/B is a four-channel data collection device with a high sampling rate and a compact size. It supports both IEPE and voltage input methods, adopts the mature TCP/IP protocol, and comes with a built-in SD card. The device allows users to configure system parameters and store recorded data directly to the internal SD card. Paired with the supporting software, it enables efficient data acquisition and analysis. It is applicable to scenarios such as industrial automation production line monitoring, mechanical equipment vibration detection, and environmental monitoring data collection.

APPLICATION SCENARIOS

- Testing-friendly in power-free areas like the wild and industrial sites
- Aircraft structural health monitoring
- Automobile performance testing
- Condition monitoring of power equipment such as motors and machine tools
- Sound and vibration data logging
- Acoustic characterization analysis
- Environmental noise monitoring

DATASHEET PQ401 – A/B



	PQ401 – A	PQ401 –B
Software Development Kit	C, C#, MATLAB, Python	C, C#, MATLAB, Python
Input Channels	4	4
Input Interface	BNC	BNC
Input Type	Voltage/IEPE	Voltage/IEPE
Input Coupling	AC/DC	AC/DC
Resolution	24-bit	24-bit
Sampling Frequency	128kHz	196kHz
Anti-aliasing Filter	Yes	Yes
Maximum Input Voltage	± 2.5 vpk	± 2.5 vpk
Random Noise	0.03 mVrms	0.03 mVrms
Dynamic Range	114 dB	114 dB
Transmission Method	Ethernet	Ethernet
Power Supply Method	DC 12V / External Battery Powered	DC 12V / External Battery Powered
IEPE Power Supply	4 mA/24 V	4 mA/24 V
Battery Life	6 h	6 h
Storage Method	Built-in 16 G SD card	Built-in 16 G SD card
Dimensions	110 mm × 107 mm × 28 mm	110 mm × 107 mm × 28 mm
Weight	520 g	520 g

This product uses TCP/IP protocol which is opened to users, allowing users to develop applications in C, C#, MATLAB, Python. Third-party software can integrate our transmission protocol into their own software product.



Placid Instruments BV

Newtonlaan 115, Office No. 2.21

3584 BH UTRECHT

THE NETHERLANDS

Phone landline : +31 302106021

Email : info@placidinstruments.com

www.placidinstruments.com

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