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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. Paired with the supporting software, it enables data acquisition and analysis. It is applicable to scenarios like industrial automation production line monitoring, mechanical equipment vibration detection, and environmental monitoring data collection.

DATASHEET PQ401 – A/B



	PQ401 – A	PQ401 –B
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	8 ~ 96kHz	8 ~ 192kHz
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 12 V / External Battery Powered	DC 12 V / External Battery Powered
IEPE Power Supply	4 mA/24 V	4 mA/24 V
Storage Configuration Data	Built-in 16 GB SD card	Built-in 16 GB SD card
Dimensions	110 mm × 107 mm × 28 mm	110 mm × 107 mm × 28 mm
Weight	520 g	520 g

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

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



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