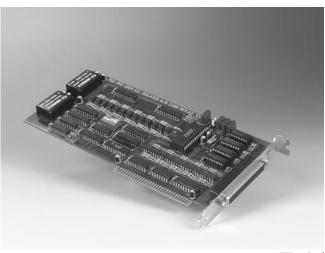
PCL-813B

25 kS/s, 12-bit, 32-ch SE Isolated **Analog Input ISA Card**



Features

- 32 single-ended analog input channels
- 12-bit A/D converter, with up to 100 kHz sampling rate
- Isolation protection (500 V_{DC})
- Program-controlled A/D trigger and data transfer





Introduction

PCL-813B is a 12-bit 32-channel analog input card that offers high-voltage isolation on each analog input. It is an extremely cost effective solution for applications in industrial measurement and monitoring. The card offers 32 analog input channels with software programmable gain on each channel and two DC-to-DC converters on a 4-layer PCB with an integral ground plane. Optically-isolated inputs provide over 500 V_{DC} of isolation between the analog inputs and the PC, protecting the PC and peripherals from damage due to high voltages on the input lines. PCL-813B is ideal for situations where the budget-conscious user requires flexibility, stability and a high level of isolation protection. PCL-813B comes with the PCLD-881 wiring terminal board and a DB-37 cable assembly.

Specifications

Analog Input

Channels 32 single-ended Resolution 12 bits, Max. Sampling Rate 25 kHz

• Overvoltage Protection Continuous ±30 V (max.) Isolation Protection $500~V_{\text{DC}}$ from analog input to PC

 Input Impedance $> 10 \ M\Omega$ Sampling Modes software trigger

 Input Range (V)

Unipolar (jumper selection)	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
Bipolar (software selection)	±5	±2.5	±1.25	±0.625
Accuracy (% of FSR ±1LSB)	0.01	0.01	0.01	0.01

Accuracy 0.01% of reading ±1 LSB

General

Bus Type I/O Connectors 1 x DB37-F

 Dimensions (L x H) 219 x 100 mm (8.6" x 3.9") Power Consumption +5 V @ 660 mA max. +12 V @ 140 mA max.

• Operating Temperature $0 \sim 50^{\circ} \text{ C} (32 \sim 122^{\circ} \text{ F})$ Storing Temperature -20 ~ 65° C (-4 ~ 149° F)

 Storing Humidity 5 ~ 95% RH non-condensing (refer to IEC 68-2-3)

Ordering Information

 PCL-813B 32-ch. isolated analog input card, PCLD-881B wiring

terminal board, DB-37 cable assembly, manual and

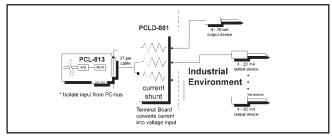
driver CD-ROM.

 PCLD-881B Industrial terminal board for PCI-1713 & PCL-813B

DB37 cable assembly, 1 m PCL-10137-1 PCL-10137-2 DB37 cable assembly, 2 m PCL-10137-3 DB37 cable assembly, 3 m

ADAM-3937 DB37 wiring terminal for DIN-rail mounting

Typical application for PCL-813B:



Industrial 4 ~ 20 mA Output Device Monitoring