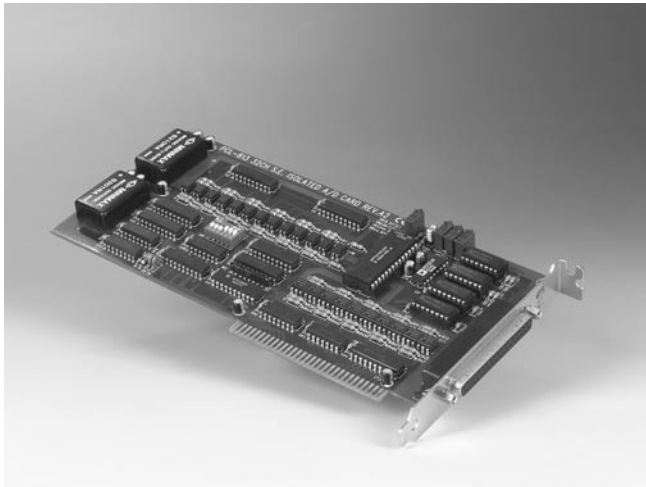


# PCL-813B

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<sub>DC</sub>)
- 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<sub>DC</sub> 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  $\pm 30$  V (max.)
- **Isolation Protection** 500 V<sub>DC</sub> from analog input to PC
- **Input Impedance** > 10 M $\Omega$
- **Sampling Modes** software trigger
- **Input Range** (V)

<b>Unipolar (jumper selection)</b>	0 ~ 10	0 ~ 5	0 ~ 2.5	0 ~ 1.25
<b>Bipolar (software selection)</b>	$\pm 5$	$\pm 2.5$	$\pm 1.25$	$\pm 0.625$
<b>Accuracy (% of FSR <math>\pm 1</math>LSB)</b>	0.01	0.01	0.01	0.01

- **Accuracy** 0.01% of reading  $\pm 1$  LSB

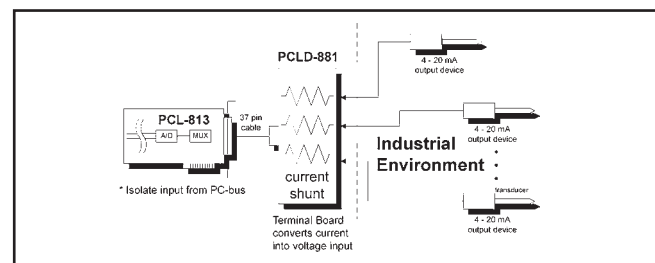
### General

- **Bus Type** ISA
- **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 ~ 50° C (32 ~ 122° 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
- **PCL-10137-1** DB37 cable assembly, 1 m
- **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