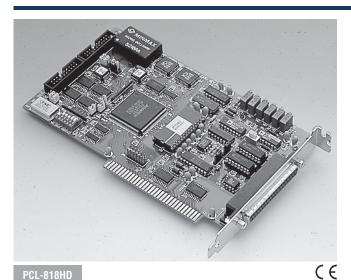
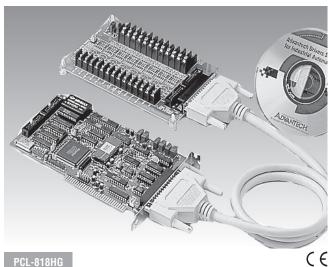
# **PCL-818HD PCL-818HG**

## **High-Performance Half-Size Multifunction Card**

## **High-Performance Multifunction Card**





Introduction

The PCL-818HD has guaranteed 100 kHz sampling and transfer speeds at all gains (x 1, 2, 4 or 8, programmable) and input ranges. It features an onboard 1 K sample FIFO (First In First Out) buffer for faster data transfer and more predictable performance under Windows

# **Specifications**

#### **Analog Input**

Input Range (V) Bipolar:  $\pm 10$ ,  $\pm 5$ ,  $\pm 2.5$ ,  $\pm 1.25$ ,  $\pm 0.625$ Unipolar: 0 ~ 10, 0 ~ 5, 0 ~ 2.5, 0 ~ 1.25

Maximum Sampling Rate

100 kHz for all input ranges

Gain = 0.5, 10.01% of FSR ±1 LSB Accuracy Gain = 2, 4 0.02% of FSR ±1 LSB Gain = 8 0.04% of FSR ±1 LSB

General

On-board Memory 1K samples FIFO for A/D. Can generate an interrupt

when full or half full

 Power Consumption +5 V @ 500 mA max., +12 V @ 200 mA max 32 bytes with FIFO active or 16 bytes with FIFO I/O Ports

disabled A/D, D/A Connector DB37

185 x 100 mm (7.3" x 3.9") Dimensions (L x H)

**Ordering Information** 

 PCL-818HD High-performance half-size multifunction card with DB-37connector, user's manual and driver CD-ROM

(cable not included)

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

 PCLD-8115 Industrial Wiring Terminal with CJC circuit and DB37

 PCLD-880 Industrial Wiring Terminal with DB37 connector

## Introduction

The PCL-818HG offers the same functions as the PCL-818HD, but it features a special high-gain programmable instrument amplifier for reading very low level input signals (x 0.5, 1, 5, 10, 50, 100, 500 or 1000).

The PCL-818HG package includes a special wiring board (PCLD-8115) with a DB-37 connector and CJC. This combination lets you measure low-level thermocouple signals without an external signal-conditioning board.

# **Specifications**

#### **Analog Input**

Conversion Time

Input Range (V) Bipolar:  $\pm 10$ ,  $\pm 5$ ,  $\pm 1$ ,  $\pm 0.5$ ,  $\pm 0.1$ ,  $\pm 0.05$ ,  $\pm 0.01$ ,  $\pm 0.005$ 

Unipolar: 0 ~ 10, 0 ~ 1, 0 ~ 0.1, 0 ~ 0.01

Maximum Sampling Rate

(depends on input amplifier settling time and slew rate)

Gain Speed Channels 0.5, 1 100 kHz Single (input signal £ 3 V p-p) 0.5, 1, 5, 10 35 kHz Multiple 50, 100 7 kHz Multiple Multiple 500.1000 1 kHz

Gain = 0.5.10.01% of FSR ±1 LSB Accuracy Gain = 5, 100.02% of FSR ±1 LSB Gain = 50, 100 0.04% of FSR ±1 LSB

Gain = 500, 1000 0.08% of FSR  $\pm 1$  LSB

### General

See PCL-818HD

# **Ordering Information**

 PCL-818HG High-performance and High-gain multifunction card

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

PCLD-8115 Industrial Wiring Terminal with CJC circuit and DB37

connector

PCLD-880 Industrial Wiring Terminal with DB37 connector