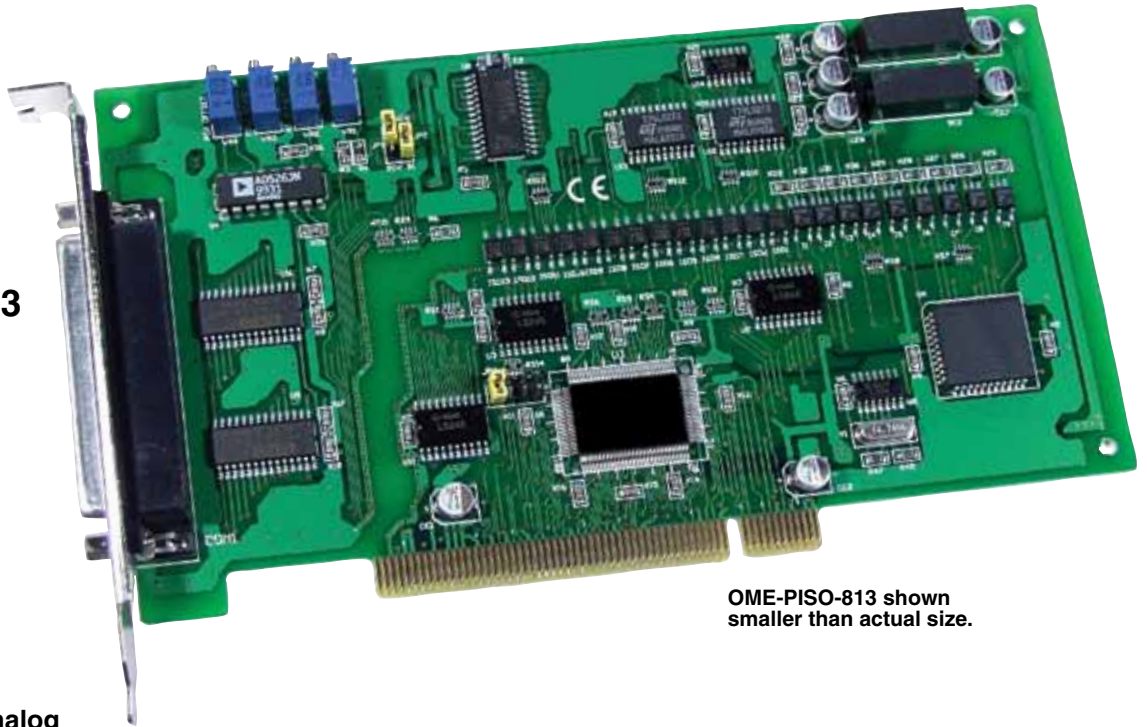


DATA ACQUISITION PLUG-IN CARDS

32-Channel Single-Ended Isolated Analog Input Board



OME-PISO-813



OME-PISO-813 shown smaller than actual size.

- ✓ PCI Bus
- ✓ 12-Bit A/D
- ✓ 32 Single-Ended Analog Input Channels
- ✓ 3,000 Vdc Photo-Isolation Protection
- ✓ Analog Input Ranges:
Bipolar: ± 10 V, ± 5 V, ± 2.5 V, ± 1.25 V, ± 0.625 V
Unipolar: 0 to 10 V, 0 to 5 V, 0 to 2.5 V, 0 to 1.25 V, 0 to 0.625 V
- ✓ Programmable Gain Control (1, 2, 4, 8, 16)
- ✓ A/D Trigger Mode: Software Trigger
- ✓ A/D Data Transfer Mode: Polling

The OME-PISO-813 is an isolated 12-bit A/D board for the PCI bus for IBM or compatible PC. It features a 10 KHz data acquisition rate under DOS and Windows.

The OME-PISO-813 provides 32 single-ended analog inputs and has 3000 Vdc photo-isolation from the PC (no channel-to-channel isolation).

Software Development Kit

The OME-PISO-813 is supplied with a standard software development kit for Windows 98/NT/2000/XP. The software development kit includes DLL files for programming in C, C++ or other high level languages and OCX files for Visual Basic or Active X programming. DasyLab and LabView drivers are also included.

Specifications

ANALOG INPUTS
Channels: 32 single-ended
Resolution: 12-bits
Conversion Rate: 10 KS/s max
Input Impedance: 10 M Ω
Overvoltage Protection: ± 35 V
Accuracy: 0.01% of reading ± 1 bit
Linearity: ± 1 bit
Sample & Hold: on chip
Zero Drift: ± 25 ppm/ $^{\circ}$ C of FS max
Power Requirements:
 $+5$ V @ 850 mA max
A/D Trigger Mode: Software trigger
A/D Data Transfer Mode: Polling

GENERAL ENVIRONMENTAL

Operating Temperature:
0 to 50 $^{\circ}$ C (32 to 122 $^{\circ}$ F)
Storage Temperature:
-20 to 70 $^{\circ}$ C (-4 to 158 $^{\circ}$ F)
Humidity: 0 to 90% RH non-condensing
Dimensions: 180 L x 105 mm H (7.1 x 4.1")
Connector: 37-pin D-sub female



OMEGACARESM extended warranty program is available for models shown on this page. Ask your sales representative for full details when placing an order. OMEGACARESM covers parts, labor and equivalent loaners.

To Order

Model No.	Description
OME-PISO-813	32-channel isolated analog input board
OME-DB-8325/1	Screw terminal board with signal conditioning circuitry (includes 1 m (3') D-sub 37-pin ribbon cable)
OME-DB-8325/2	Screw terminal board with signal conditioning circuitry (includes 2 m (6.5') D-sub 37-pin ribbon cable)
OME-DB-37	Direct connect 37-pin terminal board
OME-DN-37	DIN rail mount I/O connector block with 37-pin D-sub connector, includes 1 m (3') cable

Each OME-PISO-813 data acquisition board includes complete operator's manual on CD ROM and software development kit.

Ordering Example: OME-PISO-813 32-channel isolated analog input board, OME-DB-8325/1 screw terminal board with 1 m cable and OCW-1 OMEGACARESM 1 year extended warranty for OME-PISO-813 (adds 1 year to standard 1 year warranty).