PISO-DA2

2-channel 12-bit isolated analog output board



Features

- 32-bit +5V PCI Bus, Plug & Play
- Two independent 12-bit channels of analog output
- 3750 VDC isolation protection
- 3000 VDC isolation DC/DC converter build-in
- Software calibration
- The calibration data is fully stored in EEPROM
- Two pacer timers interrupt source
- The voltage or current output can be set to arbitrary values or reset to zero when the power is on

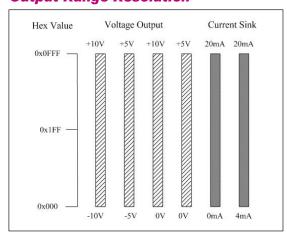
Functional Description

The PISO-DA2 is a PCI bus analog output board with two isolated 12-bit output channels for IBM personal computer and compatibility. The output range can be configured as voltage output by one of the different ranges: \pm 10 V, \pm 5 V, 0~10 V, 0~5 V, or current output using loop sink by the range: 0~20 mA or 4~20 mA. Besides, output channel is isolated from each other and the isolation range can reach the voltage more than 3000 VDC. The maximum conversion rate of the analog output is 10KS/s. It is the most cost-effective isolated D/A board for the PCI bus interface.

Applications

- Factory Automation
- Product Test
- Laboratory Automation
- Security Control

Output Range Resolution



Specifications

- D/A converter with resolution: 12-bit
- Conversion rate: 10KS/s max
- Voltage output range: Bipolar: ±10V, ±5V
 Unipolar: 0~10V, 0~5V
- External load register: 1KΩ min
- Reference voltage: Internal: -5V and -10V External: DC \pm 10V max
- Current output: 0~20 mA, 4~20 mA
- Current loop excitation voltage: +8V~+36V
- External load register: 400 Ω max
- Converter: AD7541 or equivalent
- Accuracy: 0.015% of reading FSR (Full Scale Range)
 Linearity: ±1/2 LSB

General Specifications

- I/O connector: two 9-pin D-Sub female
- Power requirement: 5V @ 2.5A
- Operating temperature: 0 ~ 60°C
- Operating humidity: 0 ~ 90% non-condensing
- Storage temperature: -20 ~ 70°C
- Dimensions: 170 mm x 122 mm

Ordering Information

Standard

PISO-DA2: Isolated 12-bit analog output board

PISO-DA2/S: PISO-DA2 with DB-8425

Optional

DB-8425: Screw terminal board for PISO-DA2 DN-09-02: DIN-rail mounting terminal board for

PISO-DA2