



## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)

# IP-DAC

## Six-Channel 12-Bit DAC IndustryPack®

### Application Information

The IP-DAC provides six channels of 12-bit digital to analog conversion on a single-wide IndustryPack®. Any one of five output ranges may be selected individually for each DAC channel via shunts. A single high-precision (3ppm/C) reference provides exceptional stability. Alternatively, an external reference may be provided.

Each of the six channels is factory calibrated and the offset and gain correction factors are stored in the ID PROM. Software may use this calibration information to provide output voltages accurate to within one LSB.

### FEATURES:

- Six 12-bit DACs on a single-wide IndustryPack®
- Output ranges of -5, -10, 5, 10,  $\pm 2.5$ ,  $\pm 5$ , and  $\pm 10$  V individually selectable per channel
- 20  $\mu$ s settling time for 10 V output step
- Factory-calibrated; data in ID PROM
- High-precision reference
- Sense input for each channel
- Simple 16-bit software interface

## IP-DAC Six-Channel 12-Bit DAC IndustryPack®

### Specifications

#### Form Factor

- Single-wide IndustryPack

#### IndustryPack Bus Speed

- 8 MHz

#### Wait States

- None on ID read One on DAC writes

#### Number of Channels

- 6

#### Precision

- 12 bits

#### Output Voltage Ranges

- -5, -10, 5, 10,  $\pm 2.5$ ,  $\pm 5$ ,  $\pm 10$  V Hardware selected for each channel individually

#### Output Current

- $\pm 2.5$  mA on 10 V output
- $\pm 10$  mA on 5 V output

#### Accuracy

- $\pm 1$  LSB after calibration

#### Calibration

- Onboard reference 3ppm/C
- Offset and gain factory calibrated

#### Settling Time

- 10 mV step: 12  $\mu$ s
- 10 V step: 20  $\mu$ s

#### Initialization

- Reset does not change DAC outputs

#### Dimensions

- 3.9" x 1.8"

#### Weight

- 0.113 lb (0.051 kg)

#### Power Requirements (no load)

- +12 VDC, 25 mA typical
- -12 VDC, 25 mA typical
- -12 VDC, 25 mA typical
- All outputs unconnected

#### Environmental

- Operating temperature: +10° to +50°C
- Humidity: 5 to 95% non-condensing
- Storage: -40° to +85°C

### Ordering information

IP-DAC IndustryPack with six 12-bit DACs

### Associated Products

IP-TERM Fifty screw terminal block with ribbon connector

**WE INNOVATE. WE DELIVER. YOU SUCCEED.**

Americas: 866-OK-ABACO or +1-866-652-2226 Asia & Oceania: +81-3-5544-3973

Europe, Africa, & Middle East: +44 (0) 1327-359444

Locate an Abaco Systems Sales Representative visit: [abaco.com/products/sales](http://abaco.com/products/sales)

[abaco.com](http://abaco.com)  @AbacoSys

©2016 Abaco Systems. All Rights Reserved. All other brands, names or trademarks are property of their respective owners. Specifications are subject to change without notice.





## Artisan Technology Group is your source for quality new and certified-used/pre-owned equipment

- FAST SHIPPING AND DELIVERY
- TENS OF THOUSANDS OF IN-STOCK ITEMS
- EQUIPMENT DEMOS
- HUNDREDS OF MANUFACTURERS SUPPORTED
- LEASING/MONTHLY RENTALS
- ITAR CERTIFIED SECURE ASSET SOLUTIONS

### SERVICE CENTER REPAIRS

Experienced engineers and technicians on staff at our full-service, in-house repair center

### *InstraView*<sup>SM</sup> REMOTE INSPECTION

Remotely inspect equipment before purchasing with our interactive website at [www.instraview.com](http://www.instraview.com) ↗

### WE BUY USED EQUIPMENT

Sell your excess, underutilized, and idle used equipment. We also offer credit for buy-backs and trade-ins. [www.artisanng.com/WeBuyEquipment](http://www.artisanng.com/WeBuyEquipment) ↗

### LOOKING FOR MORE INFORMATION?

Visit us on the web at [www.artisanng.com](http://www.artisanng.com) ↗ for more information on price quotations, drivers, technical specifications, manuals, and documentation

**Contact us:** (888) 88-SOURCE | [sales@artisanng.com](mailto:sales@artisanng.com) | [www.artisanng.com](http://www.artisanng.com)