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Data Sheet

August 13, 2026

KEITHLEY

Keithley DAC-02 2-Channel 12-Bit Analog Output Board

Keithley MetraByte DAC-02 2 Channel 12 Bit ISA Analog Output Board The Keithley MetraByte DAC-02 is a 5-inch half-slot ISA analog output board with two independent double-buffered 12-bit multiplying DACs. Onboard minus 5 V and minus 10 V references provide 0 to 5 V, 0 to 10 V, plus/minus 5 V, plus/minus 10 V, and 4 to 20 mA current-loop (sink) ranges. An external AC or variable reference yields two- or four-quadrant multiplying DAC operation; 12-bit accuracy is maintained to 1 kHz. The board uses eight I/O locations on any 8-bit boundary in the 255 to 1023 decimal I/O space and draws +5 V / +12 V / -12 V from the PC. The Keithley MetraByte DAC-02 is a 5-inch half-slot ISA analog output board with two independent double-buffered 12-bit multiplying DACs. Onboard minus 5 V and minus 10 V references provide 0 to 5 V, 0 to 10 V, plus/minus 5 V, plus/minus 10 V, and 4 to 20 mA current-loop (sink) ranges. An external AC or variable reference yields two- or four-quadrant multiplying DAC operation; 12-bit accuracy is maintained to 1 kHz. The board uses eight I/O locations on any 8-bit boundary in the 255 to 1023 decimal I/O space and draws +5 V / +12 V / -12 V from the PC. Setpoint control; 4 to 20 mA process loops with 8 to 36 V compliance; two-channel analog stimulus; multiplying DAC with an external AC reference.



MODEL

Keithley DAC-02

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DAC-02

LISTING

<https://aumictechlabs.com/products/dac-02-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley DAC-02 2-Channel 12-Bit Analog Output Board is engineered to provide high-precision analog output for automated testing and control systems. Featuring 12-bit resolution across two channels, it ensures accurate and reliable signal generation. Ideal for applications requiring precise control, the DAC-02 offers a solid solution for demanding tasks.

Features & description

From manufacturer datasheet

Features

- Double-buffered update (LSB then MSB) so both converters change in one step
- Jumper-selected voltage or current on the 25-pin connector
- Multiplying DAC path with 2-quadrant unipolar or 4-quadrant bipolar outputs
- Half-slot 5-inch card for PC/XT and AT
- STA-U / C-1800 screw-terminal accessories

DAC Characteristics / Specifications

PARAMETER	VALUE
Model	DAC-02
Manufacturer	Keithley MetraByte
Instrument Type	ISA 2 channel 12 bit analog output board
Alias	DAC-02; DAC02; Keithley DAC-02
Host Bus	ISA PC/XT/AT
Analog Outputs	2
DAC Resolution	12 bits (1 part in 4096)
Relative Accuracy	0.5 LSB (0.01 percent) maximum
Differential Linearity	0.5 LSB maximum
Range Unipolar 5 V	0 to 5 V
Range Unipolar 10 V	0 to 10 V
Range Bipolar 5 V	plus/minus 5 V
Range Bipolar 10 V	plus/minus 10 V
Current Loop Range	4 to 20 mA sink
Current Loop Compliance	8 to 36 V
Variable Reference Range	plus/minus 10 V, 2 or 4 quadrant
Reference Input Resistance	7 kohm minimum, 11 kohm typical, 20 kohm maximum
Voltage Drive Current	plus/minus 5 mA minimum
Voltage Output Impedance	less than 0.1 ohm maximum
Settling Time	150 us to 0.001 percent typical for a full scale step
Multiplying Bandwidth	12 bit accuracy to 1 kHz
Gain Tempco Internal	plus/minus 25 ppm per °C with onboard reference
Gain Tempco External	plus/minus 5 ppm per °C with external reference
Zero Drift	plus/minus 3 ppm per °C IO Address Span: 8 locations, DIP switch on any 8 bit boundary
IO Address Window	255 to 1023 decimal

PARAMETER	VALUE
Connector	25 pinDtype male
Board Length	5 inch half slot
Operating Temperature	0 C to 70 C
Storage Temperature	minus 55 C to plus 125 C
Humidity	0 to 95 percent noncondensing
Weight	4 oz (120 g)
Power Plus 5 V	75 mA typical, 100 mA maximum
Power Plus 12 V	15 mA typical, 25 mA maximum
Power Minus 12 V	25 mA typical, 35 mA maximum
Power Dissipation	0.85 W typical
Software	configuration, calibration, and test utilities
Bandwidth	12 bit accuracy to 1 kHz

General Specifications & Supplementary Characteristics

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Power Dissipation	0.85 W typical
Software	configuration, calibration, and test utilities Notes Specs from Keithley DAC-02 User's Guide (61740B) and DAC-02 specification sheet. Range is selected by jumpering pins on the 25-pin connector. Confirm current-loop versus voltage wiring before applyingacompliance supply.

Full OEM specifications

Complete technical content extracted from the manufacturer datasheet. Sparse OEM tables are reconstructed as tables below; other text is preserved as paragraphs.

Specifications	
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Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: Available on request. Used · In stock.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

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Technical content from manufacturer specifications. Unit photo/stock from Aumictech listing when available. Specifications subject to OEM documentation and unit condition.