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Data Sheet

August 13, 2026

KEITHLEY

Keithley DAS-8/AO Analog-to-Digital Converter

Keithley Data Acquisition Systems (DAQ). Channels: ** 8, Channels: ** 2 (12-bit), Resolution: ** 12-bit successive approximation.



MODEL Keithley DAS-8/AO	CALIBRATION Available on request
CONDITION Used	STATUS In stock
RFQ / SKU DAS-8/AO	LISTING https://aumictechlabs.com/products/das-8-ao-2/

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Keithley DAS-8/AO is a 12-bit successive approximation analog-to-digital converter designed for precision data acquisition in IBM PC and compatible systems. This ISA bus card provides 8 analog input channels with software-programmable input ranges, 2 analog output channels, and an onboard 1 MHz crystal oscillator for sample timing. Unlike fixed-range variants in the DAS-8 series, the DAS-8/AO delivers flexible input and output configurations with simultaneous output capability. Technical Specifications Analog Input Channels: 8 Analog Output Channels: 2 (12-bit) ADC Resolution: 12-bit successive approximation A/D Conversion Time: 25 μ s typical, 35 μ s maximum Input Ranges: Software-programmable - ± 10 V, ± 5 V, ± 0.5 V, ± 0.05 V, ± 0.01 V, 0 to +10 V, 0 to +1 V, 0 to +0.02 V Output Ranges: Independently switch-selectable - ± 10 V, ± 5 V, ± 2.5 V, 0 to +10 V, 0 to +5 V, 4 to 20 mA Sampling Rate: Up to 4 ksamples/s; maximum per-channel rate is 4 kHz divided by the number of channels Clock Source: Onboard 1 MHz crystal oscillator; external clock input supported Counter/Timer: Onboard 82C54 programmable counter-timer with three 16-bit counters for event counting, pulse/waveform generation, and frequency/period/pulse-width

measurements Digital I/O: 7 bits TTL (one 4-bit output port, one 3-bit input port) Reference Output: +10.00 V (± 0.1 V) precision reference; 2 mA source/sink capability Interrupts: Jumper-selectable external interrupt input (levels 2–7) Key Features Simultaneous update of both analog output channels Software-programmable input ranges eliminate fixed-range limitations External interrupt capability with six selectable levels Dual D-type connectors for analog and digital signal routing Typical Applications Data acquisition, sensor signal conditioning, analog monitoring, and real-time laboratory measurement in DOS and Windows 95/98 environments. Compatibility & Integration Bus: ISA (Industry Standard Architecture) Host Systems: IBM PC, AT, 386, Pentium-compatible Operating Systems: MS-DOS/PCDOS 3.1 or higher; Windows 95/98 Memory: Minimum 2 MB

DAS8AO Characteristics / Specifications

PARAMETER	VALUE
Model	DAS-8/AO
Manufacturer	Keithley MetraByte
Instrument Type	ISA multifunction analog input/output board
Alias	DAS-8AO; DAS-8-AO; DAS8AO
Host Bus	ISA 8 bit
Analog Inputs	8
ADC Resolution	12 bit
ADC Conversion Time Typical	25 us
ADC Conversion Time Maximum	35 us
Gain Select	software programmable (DAS-8PGA class)
Bipolar Ranges Class	plus/minus 10 V, plus/minus 5 V, plus/minus 0.5 V, plus/minus 0.05 V, plus/minus 0.01 V
Unipolar Ranges Class	0 to 10 V, 0 to 1 V, 0 to 0.02 V class (PGA set)
Analog Outputs	2
DAC Resolution	12 bit
DAC Ranges Class	4-20 mA, 0-5 V, 0-10 V, plus/minus 10 V (family literature)
Digital Inputs	3
Digital Outputs	4
Timer Counter	yes (family)
Pacer Clock	onboard (DAS-8/AO differentiator versus base DAS-8)
Connector	37 pin D-sub
Expansion	up to 128 channels via EXP-16 and EXP-GP
Channel Gain Array	up to 256 entries (driver literature)
Default Base Address Class	300h
Related Base	DAS-8 (fixed gain, no AO)
Related PGA Only	DAS-8PGA

PARAMETER	VALUE
Related Laptop	DAS-8LT
Related Upscale	DAS-800 / DAS-801 40 kS/s class
Software	DAS-8 mode calls; DriverLINX Windows class
Form	ISA plug-in

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	
Specifications	
PARAMETER	VALUE
Model	DAS-8/A0
Manufacturer	Keithley MetraByte
Instrument Type	ISA multifunction analog input/output board
Alias	DAS-8A0; DAS-8-A0; DAS8A0
Host Bus	ISA 8 bit
Analog Inputs	8
ADC Resolution	12 bit
ADC Conversion Time Typical	25 us
ADC Conversion Time Maximum	35 us
Gain Select	software programmable (DAS-8PGA class)
Bipolar Ranges Class	plus/minus 10 V, plus/minus 5 V, plus/minus 0.5 V, plus/minus 0.05 V, plus/minus 0.01 V
Unipolar Ranges Class	0 to 10 V, 0 to 1 V, 0 to 0.02 V class (PGA set)
Analog Outputs	2
DAC Resolution	12 bit
DAC Ranges Class	4-20 mA, 0-5 V, 0-10 V, plus/minus 10 V (family literature)
Digital Inputs	3
Digital Outputs	4
Timer Counter	yes (family)
Pacer Clock	onboard (DAS-8/A0 differentiator versus base DAS-8)
Connector	37 pin D-sub
Expansion	up to 128 channels via EXP-16 and EXP-GP
Channel Gain Array	up to 256 entries (driver literature)
Default Base Address Class	300h
Related Base	DAS-8 (fixed gain, no A0)
Related PGA Only	DAS-8PGA

PARAMETER	VALUE
Related Laptop	DAS-8LT
Related Upscale	DAS-800 / DAS-801 40 kS/s class
Software	DAS-8 mode calls; DriverLINX Windows class
Form	ISA plug-in

Notes

Specs from Keithley/MetraByte DAS-8 External DAS Driver and DAS-8 Series product descriptions. Confirm silkscreen DAS-8/A0 (programmable gain plus dual DAC) versus DAS-8, DAS-8PGA, or DAS-8LT.

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

788 S 500 E, Pleasant Grove, UT 84062
sales@aumictech.com · +1 (484) 841-9341
<https://aumictechlabs.com>

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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.