

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

DEWETRON

Dewetron DEWE-2010

The Dewetron DEWE-2010 is a data acquisition system, designed for precision measurement and analysis in various applications. It offers high-speed data capture and real-time processing capabilities.



MODEL

Dewetron DEWE-2010

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

DEWE-2010

LISTING

<https://aumictechlabs.com/products/dewe-2010-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Dewetron DEWE-2010 is a portable data acquisition system that functions as a complete computing platform for precision measurement and real-time analysis. Built on industrial-grade COTS components, it captures, processes, and analyzes signals in a single integrated unit without requiring external computation infrastructure. The system delivers 30 to 45 MB/s data throughput and supports expansion to 64 measurement channels, making it suitable for field testing, structural monitoring, and multi-sensor applications. Technical Specifications Processing & Storage Intel Pentium M processor at 1.8 GHz 1 GB RAM 250 GB hard disk Optional DVD +/-RW burner and 5.25" removable drive bay (SATA, IDE, or SCSI) Display & Interface 15-inch TFT display, 1024 × 768 pixel resolution Optional touchscreen capability Data Acquisition 16 DAQ input channels (standard) Expandable to 64 channels via DEWE-2010-64 model 16 module slots for DAQ and PAD conditioning modules 5 PCI slots for A/D boards and interface cards Industry-standard 200 kHz A/D board, field-upgradeable to faster or 16-bit versions Data throughput: 30 to

45 MB/s Connectivity Gigabit Ethernet (10/100/1000 BaseT) 2 × USB ports RS-232 serial (COM1) 1 parallel port 1394 FireWire, 1553, and CAN support via PCI expansion Power Input: 90 to 260 VAC Optional AC/DC supply: 115/230 VAC or 10 to 32 VDC Optional built-in UPS: ~5 minutes runtime Key Features Low-noise, high-isolation signal conditioning modules with differential inputs Multi-range capability across sensor types: strain gages, accelerometers, thermocouples, RTDs, LVDTs, potentiometric sensors, and tachometers Modular architecture supports mixed voltage, current, and temperature measurements simultaneously Upgradeability - older configurations retrofit to modern specifications Dimensions: 410 × 230 × 290 mm; weight: 12.5 kg Typical Applications Structural health monitoring and vibration analysis Automotive and aerospace testing Multi-channel transducer data logging in field environments Real-time signal processing without external DAQ hardware Compatibility & Integration Operating System: Microsoft Windows XP Professional Compatible with Dewesoft acquisition and export software Standard PCI architecture for third-party instrumentation cards Environmental Operating temperature: 0 to +50 °C (–20 °C with pre-warming) Storage temperature: –20 to +70 °C Humidity: 10–80% non-condensing; 5–95% relative humidity Meets MIL-STD 810F vibration (514.5, procedure I) and shock (516.5, procedure I) standards

DEWE2010 Characteristics / Specifications

PARAMETER	VALUE
Model	DEWE-2010
Instrument Type	Portable data acquisition PC instrument
Family	Dewetron DEWE-2010 / 4010 / 5000 16-slot series
Display	15 inch TFT
Module Slots	16 DEWE module slots
Channel Count	up to 16 isolated DAQ or 64 MDAQ in chassis
Expansion	up to 256 channels with external racks
Pci Slots	up to 5 PCI slots for A/D or other PCI boards
Power Supply	FSP300-601U 300 W AC
Ac Input	100 to 240 V AC auto-select, 50/60 Hz, 3 A to 6 A
Dc Rails	+3.3 V 20 A, +5 V 25 A, -5 V 0.3 A, +12 V 16 A, -12 V 0.8 A, +5 Vsb 2 A
Combined Cap	+3.3 V and +5 V together 157 W max
System Fuse	3.15 AOperating Temperature: minus 5 C to 50 C standard
Storage Temperature	minus 20 C to plus 70 C
Humidity Operating	10 to 80 percent non-condensing
Vibration	MIL-STD 810F 514.5 procedure I, 5 to 200 Hz, 1 g / 1.5 g bands
Shock	MIL-STD 810F 516.5 procedure I, half sine 11 ms 10 g
Dimensions	approx. 410 × 288 × 205 mm (16.1 × 11.3 × 8.1 in)
Mass	typical 9.5 kg (19 lb), configuration dependent
Host Interfaces	10/100 BaseT Ethernet, USB, VGA, RS-232
Manufacturer	Dewetron
Literature	DEWE-2010 Technical Reference Manual printing 2.1.2 September 2010
Operating temperature	minus 5 C to 50 C standard
Humidity	Operating: 10 to 80 percent non-condensing

DEWE2010 Specifications

PARAMETER	VALUE
Applications	Portable isolated DAQ with DEWE-DAQ/PAD modules for field and lab recording on a 15-inch instrument PC.
Key Features	16 DAQ slots or 64 MDAQ channels in the chassis
Up to 5 PCI slots for A/D boards	300 W 100-240 V auto-range ATX-class supply
Technical Specifications	Model: DEWE-2010

General Specifications & Supplementary Characteristics

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Literature	DEWE-2010 Technical Reference Manual printing 2.1.2 September 2010 Notes From Dewetron DEWE-2010 technical reference main-system and FSP300-601U pages. A/D converter sample-rate tables are module-specific (appendix A) and are not invented here.

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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Notes

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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

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

NIST-traceable calibration · SAM registered ·
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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.