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Data Sheet

August 15, 2026

DATRON

Datron 1271

Datron Fluke Wavetek 1271 8.5 Digit Digital Multimeter The Datron 1271 is a metrology-grade 8.5-digit digital multimeter in the same family as the Datron 1281. OEM comparison tables list Datron 1281/1271 best 1-year DCV accuracy ± 3.1 ppm, resistance ± 6 ppm, and DCI ± 25 ppm. The 1271 is the service/calibration companion DMM to the 1281 in Wavetek/Fluke Datron literature, with GPIB automation for standards-lab DC voltage, resistance, and current. Standards-laboratory DC voltage, resistance, and current measurements requiring 8.5-digit, low-ppm 1-year specifications. The Datron 1271 is a metrology-grade 8.5-digit digital multimeter in the same family as the Datron 1281. OEM comparison tables list Datron 1281/1271 best 1-year DCV accuracy ± 3.1 ppm, resistance ± 6 ppm, and DCI ± 25 ppm. The 1271 is the service/calibration companion DMM to the 1281 in Wavetek/Fluke Datron literature, with GPIB automation for standards-lab DC voltage, resistance, and current. Standards-laboratory DC voltage, resistance, and current measurements requiring 8.5-digit, low-ppm 1-year specifications.



MODEL

Datron 1271

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

1271

LISTING

<https://aumictechlabs.com/products/1271-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Datron 1271 is an 8.5-digit precision digital multimeter engineered for calibration laboratories, standards applications, and demanding ATE environments. It delivers high accuracy and stability across a broad range of electrical measurements with selectable resolution from $5\frac{1}{2}$ to $8\frac{1}{2}$ digits.

The instrument combines internal Selfcal and external Autocal calibration methods to maintain measurement traceability without requiring cover removal or frequent recalibration cycles.

Technical Specifications

DC Voltage: Configurable measurements from 10 nV to 1100 V with 10 G Ω input impedance to 20 V. Selectable resolution spans 5½ to 8½ digits.

AC Voltage (True RMS): Two options available. Option 10 (high-speed) measures 100 nV to 1100 V from 10 Hz to 1 MHz, delivering 6½ digit readings at 20 readings/second above 1 kHz. Option 12 (high-accuracy) covers 100 nV to 1100 V from 1 Hz to 1 MHz. Both support simultaneous voltage and frequency measurement, eliminating the need for a separate frequency counter.

Resistance (Option 20): 2-wire and 4-wire measurements from 1 $\mu\Omega$ to 2 G Ω . Specialized functions include 2/4-Wire Ohms (eliminates lead resistance), True Ohms (eliminates thermal EMF), LoI Ohms (minimizes self-heating in PRTs and enables in-circuit measurements), and Ohms Guard (measures in-circuit resistance while guarding out leakage paths).

Current (Option 30): DC and AC current measurements available, with ranges extending to 30 A.

Ratio Measurements (Option 40): Comprehensive ratio capabilities via two identical rear input channels (A and B).

Key Features

- Reading speed up to 1000 readings/second
- Selfcal automatic internal calibration every 30 days or after $\geq 5^{\circ}\text{C}$ ambient shifts
- Maintains full measurement accuracy to 35°C without traceability loss
- Stability better than 3 ppm/year over $\pm 5^{\circ}\text{C}$ range
- Temperature range 0°C to 50°C
- External Autocal available from front panel

Typical Applications

- Calibration and standards laboratories; automatic test equipment; in-circuit resistance measurement; precision voltage and current characterization.

Compatibility & Integration

Dual input architecture (Option 40) and simultaneous measurement capabilities support multi-function test sequences and system integration in production and metrology environments.

1271 Characteristics / Specifications

PARAMETER	VALUE
Model	1271
Instrument Type	8.5 digit digital multimeter
Resolution	8.5 digits
Family Dcv Accuracy	±3.1 ppm best 1 year (Datron 1281/1271 table)
Family Resistance Accuracy	±6 ppm best 1 year (Datron 1281/1271 table)
Family Dci Accuracy	±25 ppm best 1 year (Datron 1281/1271 table)
Related Model	Datron 1281
Manufacturer	Datron Wavetek Fluke
Literature	Datron 1271/1281 datasheet and service literature
Family	Datron 1271/1281 metrology DMMs
Brand Lineage	Datron Wavetek Fluke
Form Factor	benchtop metrology DMM
System Role	8.5 digit laboratory multimeter
Use Case	standards lab DCV/ohms/DCI
Documentation Type	OEM 1271/1281 literature
Year Class	Datron 1271
Application Class	DC metrology
Vendor Path	Datron Wavetek Fluke
Interface Class	GPIB automation
Meter Class	8.5 digit
Accuracy Class	ppm 1 year family table
Documentation Class	OEM 1271 service/datasheet
Control Class	front panel and GPIB
Companion Role	Datron 1281
Operating Mode	DCV, resistance, DCI

PARAMETER	VALUE
Instrument Class	digital multimeter
Calibration Class	1 year family specifications

1271 Specifications

PARAMETER	VALUE
Datron Fluke Wavetek 1271 8.5 Digit Digital Multimeter	Overview
Applications	Standards-laboratory DC voltage, resistance, and current measurements requiring 8.5-digit, low-ppm 1-year specifications.
Key Features	8.5 digit DMM
GPIO automation	Datron 1281 family companion
Technical Specifications	Model: 1271

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.	
Key Features	
8.5 digit DMM Family 1 year DCV ±3.1 ppm Family resistance ±6 ppm Family DCI ±25 ppm GPIB automation Datron 1281 family companion	
Technical Specifications	
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Meter Class	8.5 digit
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Documentation Class	OEM 1271 service/datasheet
Control Class	front panel and GPIB

PARAMETER	VALUE
Companion Role	Datron 1281
Operating Mode	DCV, resistance, DCI
Instrument Class	digital multimeter
Calibration Class	1 year family specifications

Notes

From Datron 1281/1271 family accuracy tables (± 3.1 ppm DCV, ± 6 ppm ohms, ± 25 ppm DCI best 1-year). Function-by-function range tables and 1271-versus-1281 differences are on the Datron 1271 specification/service pages.

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.