

**Aumictech**

Test & measurement • bought, sold, repaired, calibrated

Data Sheet

August 15, 2026

BRUEL & KJAER

Brüel & Kjær 2425 Electronic Voltmeter

Brüel and Kjær 2425 Electronic Voltmeter The Brüel & Kjær 2425 is a precision electronic voltmeter. OEM 2425 instructions specify RMS, Average, +Peak, -Peak, and Max Peak measurements from 100 μ V to 300 V over 0.5 Hz to 500 kHz. It is a wide-range measuring amplifier with calibrated gains in 10 dB steps. The RMS rectifier accuracy is ± 0.5 dB class for signals to 10 dB above FSD. Peak modes correspond to IEC 179 / 16.5-1961 class measurements. Meter damping Fast/Slow averaging and decay times are selectable. Input is high impedance with 47 pF class shunt on the listed input network. A recorder output allows use as a calibrated amplifier. The Brüel & Kjær 2425 is a precision electronic voltmeter. OEM 2425 instructions specify RMS, Average, +Peak, -Peak, and Max Peak measurements from 100 μ V to 300 V over 0.5 Hz to 500 kHz. It is a wide-range measuring amplifier with calibrated gains in 10 dB steps. The RMS rectifier accuracy is ± 0.5 dB class for signals to 10 dB above FSD. Peak modes correspond to IEC 179 / 16.5-1961 class measurements. Meter damping Fast/Slow averaging and decay times are selectable. Input is high impedance with 47 pF class shunt on the listed input network. A recorder output allows use as a calibrated amplifier. Acoustic, vibration, and general-purpose RMS/peak voltage measurements from infrasonic 0.5 Hz to 500 kHz.



MODEL

**Brüel & Kjær
2425**

CALIBRATION

**Available on
request**

CONDITION

Used

STATUS

In stock

RFQ / SKU

2425

LISTING

<https://aumictechlabs.com/products/2425-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Brüel & Kjær 2425 is a precision electronic voltmeter array of voltage measurement applications. It has versatile measurement modes, including true RMS, Average, +Peak, -Peak, and Max. Peak, across a broad frequency range of 0.5 Hz to 500 kHz. This instrument is capable of measuring voltage levels from 100 μ V up to 300 V, with selectable meter damping characteristics (Fast and Slow) and a Peak Hold function for capturing transient signals. The 2425 also provides AC and DC outputs for recording purposes and can be powered by either mains or battery. Its Average Fast mode adheres to the ANSI Standard C16.5-1961, enabling its use as a volume indicator for audio and telephone line analysis.

Technical Specifications

- Measurement Modes:** True RMS, Average, +Peak, -Peak, Max. Peak
- Voltage Measurement Range:** 100 μ V to 300 V full-scale deflection (FSD)
- Frequency Response:** 0.5 Hz to 500 kHz (0.5 MHz)
- Accuracy (RMS Measurement):** ± 0.5 dB for signals with crest factor up to 5:1 (14 dB)
- Dynamic Range (RMS Rectifier):** > 40 dB
- Crest Factor Capability:** 5:1 (14 dB)
- Meter Damping (Time Constants):** Selectable "Fast" and "Slow"
- "Fast" Response:** ± 0.2 dB from 20 Hz to 0.2 MHz; ± 0.5 dB from 0.2 MHz to 0.5 MHz
- "Slow" Response:** ± 0.2 dB from 2 Hz to 0.2 MHz; ± 0.5 dB from 0.5 Hz to 0.5 MHz
- Average Measurement:** * "Fast" response for standard VU measurements. * "Slow" response.
- Peak Measurement:** * Selectable for +Peak, -Peak, and Max. Peak detection. * Input time constant: 50 μ s ("Fast"), 500 μ s ("Slow"). * "Hold" leakage rate: < 0.05 dB/s ("Fast"), < 0.005 dB/s ("Slow"). * "Reset" discharge time: 2.7 s ("Fast"), 30 s ("Slow") from full-scale deflection.
- Peak Hold Functionality:** Captures very short transient signals.
- Signal-to-Noise Ratio (300 kHz bandwidth):** * 1 mV Range: > 40 dB * 3 mV Range: > 50 dB
- Meter Scale:** Standard linear scale; interchangeable scales for dBm and VU measurements available.
- ANSI Standard Compliance:** Average Fast mode conforms to ANSI Standard C16.5-1961 for "vu" measurements.
- Electrical Characteristics**
 - Input:** Standard BNC socket
 - Input Impedance:** 1 M Ω || 47 pF Max.
 - Input Voltage:** 250 V DC; 110 V peak in "mV" ranges, 600 V peak in "V" ranges.
 - Amplifier/Attenuator Range:** -50 dB (300 V FSD) to +60 dB (1 mV FSD) in 10 dB steps.
 - AC Output:** Line-level signal via rear panel socket, suitable for recording. * Output Voltage: 1 V RMS at full-scale deflection.
 - DC Output:** Via 7-pin DIN socket on rear panel. * Output Voltage: 1 V DC $\pm 2\%$ at full-scale deflection. * Max. Output: 5.6 V. * Output Resistance: $< 1 \Omega$. * Minimum Load: 1 k Ω .
 - External Time Constant Input:** For connection to other recording or signal processing equipment. A capacitor of 2.5 μ F connected to this input increases the RMS averaging time and Peak decay time by 10 s. A resistor can also be used to modify the Peak decay time.
- Physical Characteristics**
 - Power Source:** Mains or external battery operation.
 - Dimensions:** Specific dimensions not detailed in the provided sources.
 - Weight:** Specific weight not detailed in the provided sources.
- Compatibility**
 - Designed for use with:** Brüel & Kjær vibration meters (as per short description, though the technical details focus on its function as a standalone voltmeter).
- Recording Equipment:** Compatible with chart recorders and other data recording equipment via AC and DC outputs.
- External Meter Time Constants:** Connection port available for external time constants.
- Remote Meter Reset:** Capable of remote meter reset via a rear panel DIN socket.

Applications

- General purpose voltage measurements.
- Measurement of true RMS, Average, +Peak, -Peak, and Max. Peak values.
- VU measurements for audio and telephone line analysis.
- Recording of AC and DC signals.
- Measurement of impulses and other transient signals.
- Use as a compressor amplifier.

Why Choose Aumictech for Brüel & Kjær 2425? At Aumictech, we specialize in supplying high-end electronic test and measurement equipment. Whether you need precise voltage measurements, reliable transient signal c

2425 Characteristics / Specifications

PARAMETER	VALUE
Model	2425
Instrument Type	Electronic voltmeter
Frequency Range	0.5 Hz to 500 kHz
Voltage Range	100 μ V to 300 V
Meter Functions	RMS, Average, +Peak, -Peak, Max Peak
Gain Steps	calibrated 10 dB steps
Rms Rectifier Accuracy	$\pm$ 0.5 dB class for signals to 10 dB above FSD
Peak Standard	Peak modes correspond to IEC 179 / 16.5-1961 class
Meter Damping	Fast and Slow averaging/decay
Input Network	high impedance with 47 pF class shunt listing
Recorder Output	calibrated amplifier for recording
Display	moving coil indicating meter with mirrored scale
Manufacturer	Bruel and Kjaer
Literature	Bruel and Kjaer 2425 Instructions and Applications
Family	B&K electronic voltmeters
Brand Lineage	Bruel and Kjaer
Form Factor	benchtop electronic voltmeter
System Role	RMS/peak voltmeter and measuring amplifier
Use Case	acoustic and vibration voltage measurement
Documentation Type	OEM 2425 instructions
Year Class	B&K 2425
Application Class	analog AC metrology
Vendor Path	Bruel and Kjaer
Amplifier Class	calibrated measuring amplifier
Meter Class	RMS average peak

PARAMETER	VALUE
Frequency Class	0.5 Hz to 500 kHz
Voltage Class	100 µV to 300 V

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	2425
Instrument Type	Electronic voltmeter
Frequency Range	0.5 Hz to 500 kHz
Voltage Range	100 µV to 300 V
Meter Functions	RMS, Average, +Peak, -Peak, Max Peak
Gain Steps	calibrated 10 dB steps
Rms Rectifier Accuracy	±0.5 dB class for signals to 10 dB above FSD
Peak Standard	Peak modes correspond to IEC 179 / 16.5-1961 class
Meter Damping	Fast and Slow averaging/decay
Input Network	high impedance with 47 pF class shunt listing
Recorder Output	calibrated amplifier for recording
Display	moving coil indicating meter with mirrored scale
Manufacturer	Bruel and Kjaer
Literature	Bruel and Kjaer 2425 Instructions and Applications
Family	B&K electronic voltmeters
Brand Lineage	Bruel and Kjaer
Form Factor	benchtop electronic voltmeter
System Role	RMS/peak voltmeter and measuring amplifier
Use Case	acoustic and vibration voltage measurement
Documentation Type	OEM 2425 instructions
Year Class	B&K 2425
Application Class	analog AC metrology
Vendor Path	Bruel and Kjaer
Amplifier Class	calibrated measuring amplifier
Meter Class	RMS average peak
Frequency Class	0.5 Hz to 500 kHz

PARAMETER	VALUE
Voltage Class	100 μ V to 300 V

Notes

From Brüel & Kjær 2425 Instructions and Applications (0.5 Hz–500 kHz, 100 μ V–300 V, RMS/Average/Peak, $\pm$ 0.5 dB RMS class). Exact input resistance and Fast/Slow time constants are in section 7 Specifications of that manual.

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 ·
30-day returns
NAICS 423690 · 811210 · 541380
Generated August 15, 2026

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