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Data Sheet

August 3, 2026

TENMA

Tenma Multimeter 72-7730A

Safety Category: CAT III 600 V / CAT IV 1000 V class Related Model: 72-7732A (40,000-count variant) Observe CAT ratings and maximum input limits for the selected function. Use fused current inputs as specified. Disconnect probes before changing functions involving current. 72-7730A is the 20,000-count USB pocket DMM—distinct from 72-7732A. Alias 727730A. Related Model: 72-7732A (40,000-count variant) Observe CAT ratings and maximum input limits for the selected function. Use fused current inputs as specified. Disconnect probes before changing functions involving current. 72-7730A is the 20,000-count USB pocket DMM—distinct from 72-7732A. Alias 727730A.



MODEL

Tenma 72-7730A

CALIBRATION

Available on request

CONDITION

Used

STATUS

In stock

RFQ / SKU

72-7730A

LISTING

<https://aumictechlabs.com/products/72-7730a-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 • 811210 • 541380

This unit

The Tenma 72-7730A is a handheld True RMS digital multimeter engineered for electrical and electronic testing across industrial, field service, and laboratory environments. This 4.5-digit (20,000-count) instrument delivers precise AC/DC voltage, current, resistance, capacitance, frequency, and temperature measurements with auto-ranging simplicity. The 100 kHz bandwidth supports transient analysis, while integrated duty cycle measurement (10% to 90%), diode testing, and continuity detection expand troubleshooting capability. USB connectivity enables PC-based data logging of up to 100 records, making it suitable for continuous monitoring and

documentation workflows.

Technical Specifications

Measurement Ranges & Accuracy

DC Voltage: 200 mV to 1 kV; $\pm(0.05\%+5)$ AC Voltage: 2 V to 1 kV; $\pm(0.6\%+40)$ DC Current: 200 μ A to 10 A; $\pm(0.15\%+20)$ AC Current: 200 μ A to 10 A; $\pm(0.8\%+15)$ Resistance: 200 Ω to 20 M Ω ; $\pm(0.4\%+20)$ Capacitance: 20 nF to 20 mF; $\pm(1.2\%+20)$ Frequency: 20 Hz to 200 Hz; $\pm(0.1\%+15)$ Temperature: -40°C to $+1000^{\circ}\text{C}$; $\pm(1\%+30)$ Duty Cycle: $\pm(1\%+30)$ 4–20 mA Loop: 0–100% Input Protection & Safety Input Impedance: 2.5 G Ω (200 mV range); 10 M Ω (other ranges) Safety Rating: CAT III 1000 V, CAT IV 600 V Power: 9 V battery (6F22)

Key Features

True RMS measurement for AC components on distorted waveforms Auto-ranging with manual override LCD display with full icon set and analogue bar graph Data Hold, Max/Min capture, and Relative Mode Current measurement alarm and low battery indication Auto power-off function extends battery life Diode test and continuity buzzer for circuit diagnostics

Typical Applications

Field troubleshooting of power distribution and control circuits; preventive maintenance on industrial motor and drive systems; HVAC service diagnostics; telecommunications equipment testing; laboratory characterization of passive components.

Compatibility & Integration

USB interface connects to Windows 8 compatible PC software for data acquisition and trend analysis.

Features & description

From manufacturer datasheet

Features

- Pocket-size DMM with USB interface
- Primary display approximately 20,000 counts (72-7730A); secondary displays approximately 2000 counts
- Auto ranging and auto polarity
- Analog bar-graph display
- Safety: IEC 61010-1 class; CAT III 600 V / CAT IV 1000 V class (per Tenma manual ratings)
- Double insulation / Pollution Degree 2 class
- Related higher-count model: 72-7732A (40,000 counts)

727730A Characteristics / Specifications

PARAMETER	VALUE
Model	72-7730A
Manufacturer	Tenma (UNI-T UT71B-class rebadge lineage)
Instrument Type	Handheld Digital Multimeter
Primary Counts	approximately 20,000
Connectivity	USB
Safety Category	CAT III 600 V / CAT IV 1000 V class
Related Model	72-7732A (40,000-count variant)
Alias	72-7730A Standard Operating Conditions Observe CAT ratings and maximum input limits for the selected function. Use fused current inputs as specified. Disconnect probes before changing functions involving current. Operational Notes
Safety	IEC 61010-1 class; CAT III 600 V / CAT IV 1000 V class (per Tenma manual ratings)
Related higher-count model	72-7732A (40,000 counts)

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

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Standard Operating Conditions

Observe CAT ratings and maximum input limits for the selected function. Use fused current inputs as specified. Disconnect probes before changing functions involving current.

Operational Notes

72-7730A is the 20,000-count USB pocket DMM-distinct from 72-7732A. Alias 727730A.

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.