

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 3, 2026

KEYSIGHT

Keysight U1732C Handheld LCR Meter

The Keysight U1732C is a handheld LCR meter in the U1730C Series with 20,000-count resolution, 0.2% basic accuracy, and selectable test frequencies of 100 Hz, 120 Hz, 1 kHz, and 10 kHz. It measures Z, L, C, R, D, Q, θ , and ESR with Auto Identification (Ai), dual display, backlight, tolerance mode, and IR-to-USB data logging. Battery life is up to 16 hours. Field and bench component sorting; ESR checks on electrolytics; quick L/C/R verification; production incoming inspection with visible/audible tolerance modes. Alias: U1732C; Agilent U1732C; Keysight U1732C Frequencies: 100 Hz; 120.481 Hz (120 Hz setting); 1 kHz; 10 kHz Frequency Accuracy: $\pm 0.01\%$ (stated as $\pm 0.1\%$ of actual test frequency in general specs context—use datasheet table: 0.01% on frequency column) Test Level: 0.74 Vrms (100 Hz / 120 Hz / 1 kHz); 0.70 Vrms (10 kHz); level accuracy ± 0.05 Vrms

No photo

MODEL

Keysight U1732C

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

U1732C

LISTING

**Off-catalog — OEM dat
asheet only**

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

Features & description

From manufacturer datasheet

Features

• Resolution: 20,000 counts (primary max display 19,999) • Basic accuracy: 0.2% • Test frequencies: 100 Hz, 120 Hz, 1 kHz, 10 kHz • Measurements: Z / L / C / R / D / Q / θ / ESR • Auto Identification (Ai) of L, C, R and series/parallel mode • Tolerance mode: 1%, 5%, 10%, 20% • Backlight; Data Hold; Min/Max/Average recording • IR-to-USB connectivity for PC logging • Battery: standard 9 V; ~16 hours alkaline; optional AC adaptor

U1732C Characteristics / Specifications

PARAMETER	VALUE
Model	U1732C
Manufacturer	Keysight Technologies
Instrument Type	Handheld LCR Meter
Family	U1730C Series
Alias	U1732C; Agilent U1732C; Keysight U1732C Test Signal
Frequencies	100 Hz; 120.481 Hz (120 Hz setting); 1 kHz; 10 kHz
Frequency Accuracy	$\pm 0.01\%$ (stated as $\pm 0.1\%$ of actual test frequency in general specs context—use datasheet table: 0.01% on frequency column)
Test Level	0.74 Vrms (100 Hz / 120 Hz / 1 kHz); 0.70 Vrms (10 kHz); level accuracy ± 0.05 Vrms
Measurement Rate	1 time/second, nominal
Response Time	Approximately 1 s/DUT Resistance / Impedance Ranges (examples)
Ranges	2 Ω to 200 M Ω (with range-dependent resolution)
Phase Angle	-180° to 180° ; resolution 0.1°/1°
D and Q	0.001–999 with accuracy derived from Z/L/C accuracy per datasheet General
Display	Primary 19,999 counts; Secondary 999 counts
Ranging	Auto and manual
Power	9 V battery or optional adaptor; 225 mVA max without backlight
Low Battery	~7.2 V
Operating Temperature	-10 to 55°C , 0 to 80% RH
Storage	-20 to 70°C (without battery)
Weight	337 g with battery
Safety/EMC	EN61010-1; EN61326-1
Calibration Cycle	1 year recommended Operational Notes U1732C does not include DCR (U1733C only) or 100 kHz (U1733C only). Prefer Keysight U1730C Series datasheet 5990-7778EN for full accuracy tables by range and frequency.

PARAMETER	VALUE
Resolution	20,000 counts (primary max display 19,999)
Basic accuracy	0.2%
Test frequencies	100 Hz, 120 Hz, 1 kHz, 10 kHz
Measurements	Z / L / C / R / D / Q / θ / ESR
Tolerance mode	1%, 5%, 10%, 20%
Battery	standard 9 V; ~16 hours alkaline; optional AC adaptor

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Operating temperature	−10 to 55 °C, 0 to 80% RH
Operating Temperature	−10 to 55 °C, 0 to 80% RH
Storage	−20 to 70 °C (without battery)
Weight	337 g with battery
Safety/EMC	EN61010-1; EN61326-1
Calibration Cycle	1 year recommended Operational Notes U1732C does not include DCR (U1733C only) or 100 kHz (U1733C only). Prefer Keysight U1730C Series datasheet 5990-7778EN for full accuracy tables by range and frequency.

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	U1732C
Manufacturer	Keysight Technologies
Instrument Type	Handheld LCR Meter
Family	U1730C Series
Alias	U1732C; Agilent U1732C; Keysight U1732C

Test Signal

Specifications

PARAMETER	VALUE
Frequencies	100 Hz; 120.481 Hz (120 Hz setting); 1 kHz; 10 kHz
Frequency Accuracy	±0.01% (stated as ±0.1% of actual test frequency in general specs context—use datasheet table: 0.01% on frequency column)
Test Level	0.74 Vrms (100 Hz / 120 Hz / 1 kHz); 0.70 Vrms (10 kHz); level accuracy ±0.05 Vrms
Measurement Rate	1 time/second, nominal
Response Time	Approximately 1 s/DUT

Resistance / Impedance Ranges (examples)

Ranges: 2 Ω to 200 MΩ (with range-dependent resolution)

Example accuracy @ 1 kHz: 200 Ω–20 kΩ: 0.2% + 3 counts; 200 kΩ: 0.5% + 5; 20 MΩ: 2.0% + 8; 200 MΩ: 6.0% + 80

2 Ω / 20 Ω ranges: 0.7% + 50 / 0.7% + 8 (after Null for lead resistance on low ranges)

Capacitance Ranges (examples)

Ranges from 20 pF class through 20 mF (frequency-dependent availability)

Example @ 1 kHz: 20 μF / 2000 nF / 200 nF: 0.2% + 3; 20 nF: 0.2% + 3; 2000 pF: 0.5% + 5

Low-pF ranges require Math Null for stray capacitance

Inductance Ranges (examples)

Ranges from 20 μH (at 10 kHz) through 2000 H (frequency-dependent)

Example @ 1 kHz: 20 mH / 200 mH / 2000 mH: 0.2% + 3; 2000 μH: 0.5% + 3; 20 H: 0.5% + 5

Phase / D / Q

Phase Angle: −180° to 180°; resolution 0.1°/1°

D and Q: 0.001–999 with accuracy derived from Z/L/C accuracy per datasheet

General

Specifications

PARAMETER	VALUE
Display	Primary 19,999 counts; Secondary 999 counts
Ranging	Auto and manual
Power	9 V battery or optional adaptor; 225 mVA max without backlight
Low Battery	~7.2 V
Operating Temperature	-10 to 55 °C, 0 to 80% RH
Storage	-20 to 70 °C (without battery)
Weight	337 g with battery

Dimensions (H×W×D): 184 × 87 × 41 mm

Safety/EMC: EN61010-1; EN61326-1

Calibration Cycle: 1 year recommended

Operational Notes

U1732C does not include DCR (U1733C only) or 100 kHz (U1733C only). Prefer Keysight U1730C Series datasheet 5990-7778EN for full accuracy tables by range and frequency.

Available from Aumictech

Used and refurbished unit evaluated in-house. Calibration: N/A — off-catalog OEM datasheet. See OEM documentation · Not listed on Aumictech inventory.

Request a quote: sales@aumictech.com · +1 (484) 841-9341

Aumictech

788 S 500 E, Pleasant Grove, UT 84062
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<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.