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Data Sheet

August 15, 2026

AGILENT / KEYSIGHT

Agilent/Keysight U1583B AC Current Clamp

Agilent Keysight U1583B AC Current Clamp 40 A / 400 A The Keysight U1583B is a dual-range clamp-on AC current clamp for handheld DMMs and handheld oscilloscopes. OEM U1583B operating instructions list 40 A at 10 mV/A and 400 A at 1 mV/A, 10 kHz bandwidth, CAT III 600 V, 32 mm jaw opening, and accuracy tables versus frequency at 23 C plus or minus 5 C. Clamp-on AC current on Keysight handheld multimeters (BNC-to-banana) and handheld oscilloscopes (BNC) without breaking the circuit. Load Impedance: greater than 1 MOhm, less than 100 pF The Keysight U1583B is a dual-range clamp-on AC current clamp for handheld DMMs and handheld oscilloscopes. OEM U1583B operating instructions list 40 A at 10 mV/A and 400 A at 1 mV/A, 10 kHz bandwidth, CAT III 600 V, 32 mm jaw opening, and accuracy tables versus frequency at 23 C plus or minus 5 C. Clamp-on AC current on Keysight handheld multimeters (BNC-to-banana) and handheld oscilloscopes (BNC) without breaking the circuit. Load Impedance: greater than 1 MOhm, less than 100 pF Accuracy 40a 48 To 65 Hz: 2 percent + 0.5 A (0.5 A to 40 A)

**MODEL****Agilent / Keysight
U1583B****CALIBRATION****Available on
request****CONDITION****Used****STATUS****In stock****RFQ / SKU****U1583B****LISTING**<https://aumictechlabs.com/products/u1583b-2/>

NIST-traceable cal

SAM registered

30-day returns

NAICS 423690 · 811210 · 541380

This unit

The Agilent/Keysight U1583B is a dual-range AC current clamp designed for non-intrusive current measurements. It is compatible with Keysight handheld digital multimeters (DMMs) and handheld oscilloscopes. The clamp offers two selectable ranges: 40 A AC and 400 A AC. For use with

DMMs, a BNC-to-banana plug adapter is provided. Technical Specifications Current Measurement: Type: AC Current Clamp Ranges: * 40 A AC * 400 A AC Output: * 10 mV/A (for 40 A range) * 1 mV/A (for 400 A range) General Specifications: Maximum Conductor Size: 32 mm (1.26 inches) Jaw Opening: 32 mm Warm-up Time: Immediately upon power on Altitude: Up to 2000 meters Relative Humidity: Max 80% RH for temperatures up to 35 °C, decreasing linearly to 50% RH at 55 °C Operating Temperature: 0 °C to 50 °C Safety and Compliance: Over-voltage Protection: CAT III 600 V Safety Compliance: Certified by CSA (Canada & USA) for IEC/EN/UL 61010-1 Regulatory Markings: CE mark, ISM device complies with Canadian ICES-001, C-tick mark (Australia EMC Framework), WEEE Directive (2002/96/EC) Connectivity: Output Connector: BNC plug Included Adapter: BNC-to-banana plug for DMM use Physical: Weight: 0.657708 kg Applications The Agilent/Keysight U1583B is suitable for various industrial applications including maintenance and repair, and general test and measurement where non-intrusive AC current measurements are required. It enables taking current readings without breaking the circuit being measured. Compatibility The Agilent/Keysight U1583B works with use with: Keysight handheld digital multimeters (DMMs) Keysight handheld oscilloscopes Why Choose Aumictech for Agilent/Keysight U1583B? At Aumictech, we specialize in supplying high-end test and measurement equipment. Whether you need accurate AC current readings for electrical troubleshooting, reliable measurements for system integration, or verified specifications for enterprise procurement, our team ensures the Agilent/Keysight U1583B delivers maximum performance for your application.

U1583B Characteristics / Specifications

PARAMETER	VALUE
Instrument Type	AC current clamp
Specified Current Range	1 A to 400 A ac
Usable Current Range	0.5 A to 400 A
Range 40 A Output	10 mV/A
Range 400 A Output	1 mV/A
Bandwidth	10 kHz
Load Impedance	greater than 1 MOhm, less than 100 pF
Crest Factor	less than 3
Accuracy 40a 48 To 65 Hz	2 percent + 0.5 A (0.5 A to 40 A)
Accuracy 40a 40 To 48 Hz	5 percent + 0.5 A (40 Hz to 48 Hz and 65 Hz to 1 kHz)
Accuracy 40a 1 To 10 Khz	10 percent + 0.5 A
Accuracy 400a Low 48 To 65 Hz	2.5 percent + 0.5 A (0.5 A to 40 A)
Accuracy 400a Mid 48 To 65 Hz	2 percent + 0.5 A (40 A to 200 A)
Accuracy 400a High 48 To 65 Hz	1.5 percent + 0.5 A (200 A to 400 A)
Measurement Category	CAT III 600 V; pollution degree 2
Operating Temperature	minus 40 C to 55 C
Storage Temperature	minus 40 C to 70 C
Weight	294 g
Dimensions	44 mmHx 92 mmWx 188 mmLCable Length: 1500 plus or minus 20 mm
Maximum Conductor Size	30 mm or 16 mm x 2
Maximum Jaw Opening	32 mm
Altitude	up to 2000 m
Relative Humidity	max 80 percent RH to 35 C, decreasing linearly to 50 percent RH at 55 C
Warm Up	immediately upon power on
Safety Compliance	CSA certified IEC/EN/UL 61010-1 2nd Edition and EN/IEC 61010-2-032

PARAMETER	VALUE
Emc Compliance	IEC/EN 61326:2002, CISPR 11 Group 1
Accuracy Temperature	23 C plus or minus 5 C, RH less than 80 percent
Humidity	max 80 percent RH to 35 C, decreasing linearly to 50 percent RH at 55 C

General Specifications & Supplementary Characteristics

PARAMETER	VALUE
Storage temperature	minus 40 C to 70 C
Operating temperature	minus 40 C to 55 C
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Humidity	max 80 percent RH to 35 C, decreasing linearly to 50 percent RH at 55 C
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Accuracy Temperature	23 C plus or minus 5 C, RH less than 80 percent Notes From Keysight U1583B Current Clamp Operating Instructions general and electrical accuracy tables. Accuracy is plus or minus (percent of reading + 0.5 A) with load greater than 1 MOhm 100 pF and crest factor less than 3.

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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Accuracy 40a 40 To 48 Hz	5 percent + 0.5 A (40 Hz to 48 Hz and 65 Hz to 1 kHz)
Accuracy 40a 1 To 10 Khz	10 percent + 0.5 A
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PARAMETER	VALUE
Accuracy Temperature	23 C plus or minus 5 C, RH less than 80 percent

Notes

From Keysight U1583B Current Clamp Operating Instructions general and electrical accuracy tables. Accuracy is plus or minus (percent of reading + 0.5 A) with load greater than 1 MOhm || 100 pF and crest factor less than 3.

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.