

**Aumictech**

Test & measurement · bought, sold, repaired, calibrated

Data Sheet

August 6, 2026

KEITHLEY

Keithley 580 Micro-ohmmeter

The Keithley 580 is a 4½-digit ($\pm 20,000$ count) micro-ohmmeter for low-resistance measurements from 10 $\mu\Omega$ to 200 k Ω across seven ranges. Dry-circuit mode clamps open-circuit voltage to 20 mV on the 200 m Ω , 2 Ω , and 20 Ω ranges. Selectable DC or pulsed test current with thermoelectric EMF compensation in pulsed mode. Optional IEEE-488 / analog output (5802); optional battery pack. Supplied with standard, Kelvin probe, and Kelvin clip leads. Contact/connector resistance; bonding and weld checks; inductive device DC resistance; dry-circuit sensitive contacts.

No photo

MODEL

Keithley 580

CALIBRATION

**N/A — off-catalog
OEM datasheet**

CONDITION

**See OEM
documentation**

STATUS

**Not listed on
Aumictech
inventory**

RFQ / SKU

580

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

- Ranges: 200 mΩ to 200 kΩ (7 ranges); 10 μΩ resolution on lowest range
- Display: 4½ digit, ±20,000 counts
- Accuracy: to within ~0.04% of reading class
- Dry circuit: 20 mV MAX open-circuit clamp on low ranges
- Test current: DC or pulsed; polarity selectable
- Settling: <1 s to within 10 counts on a given range
- Auto/manual ranging
- Single-trigger mode to minimize DUT heating
- Optional IEEE-488 bus (Model 5802)
- Digital calibration via front panel or bus

580 Characteristics / Specifications

PARAMETER	VALUE
Model	580
Manufacturer	Keithley Instruments
Instrument Type	Micro-ohmmeter
Alias	580; Keithley 580 Resistance 10 $\mu\Omega$ –200 k Ω ; dry-circuit capable; DC/pulsed drive Operational Notes Prefer Keithley 580 datasheet / operator’s manual 580-900-01.
Ranges	200 m Ω to 200 k Ω (7 ranges); 10 $\mu\Omega$ resolution on lowest range
Display	4½ digit, $\pm$ 20,000 counts
Accuracy	to within ~0.04% of reading class
Dry circuit	20 mV MAX open-circuit clamp on low ranges
Test current	DC or pulsed; polarity selectable
Settling	<1 s to within 10 counts on a given range

580 Specifications

PARAMETER	VALUE
Key Features	- Ranges: 200 mΩ to 200 kΩ (7 ranges); 10 μΩ resolution on lowest range
Technical Specifications	Model: 580
Resistance	10 μΩ–200 kΩ; dry-circuit capable; DC/pulsed drive
Operational Notes	Prefer Keithley 580 datasheet / operator’s manual 580-900-01.

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	580
Manufacturer	Keithley Instruments
Instrument Type	Micro-ohmmeter
Alias	580; Keithley 580

Resistance

10 $\mu\Omega$ –200 k Ω ; dry-circuit capable; DC/pulsed drive

Operational Notes

Prefer Keithley 580 datasheet / operator’s manual 580-900-01.

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

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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.