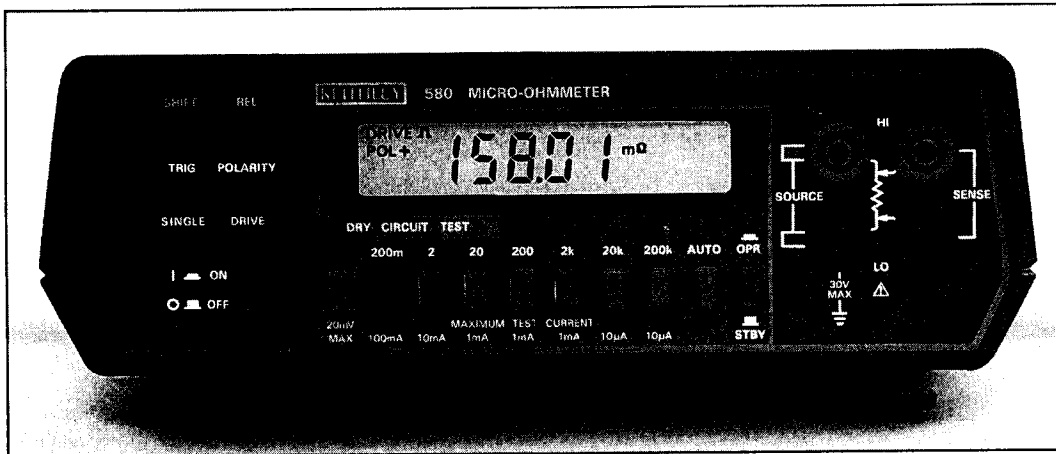


Micro-ohmmeter

580



- 10 $\mu\Omega$ sensitivity
- 20mV voltage clamp
- Selectable test current waveforms
- 3 sets of test leads included
- Optional IEEE-488 interface



The 580 Micro-ohmmeter combines high accuracy, resolution, and sensitivity with three special capabilities that make micro-ohm measurements easier and more versatile than ever:

1. When measuring contact and connector resistances, it is important not to puncture oxides and films that may have formed. The 580 ensures this dry circuit condition by clamping the open circuit test voltage to 20mV on the 200m Ω , 2 Ω , and 20 Ω ranges when the 20mV MAX button is pressed.
2. The 580 can test more devices by enabling both test current polarity and waveform (DC or pulsed) to be selected. When using pulsed test current, the 580 automatically compensates for thermal EMFs. Tests on inductive devices are best performed using DC test current, as this avoids the effects of time constants on pulsed current resistance measurements. For temperature-sensitive components, a single trigger mode of

operation minimizes power delivered to the device. Single trigger operation is possible via the front panel.

3. The optional IEEE-488 bus interface permits operation as a stand-alone unit as well as in a PC-based system.

A microprocessor-based design gives the 580 a number of advanced capabilities. Resistance measurements can be made from 10 $\mu\Omega$ to 200k Ω on seven ranges, with 4½-digit resolution and accuracy to within 0.04% of reading. Ranging can be performed either manually or automatically. Settling time is less than one second to within 10 counts on a given range.

The 580 is supplied with three sets of test leads—standard leads, Kelvin probes, and Kelvin clip leads—in a rugged strap-on pouch. For applications requiring portability or line power isolation, an optional battery pack is also available. Digital calibration is possible through front panel controls or over the optional IEEE-488 bus interface.

The 580 is supplied with three sets of test leads—standard leads, Kelvin probes, and Kelvin clip leads—in a rugged strap-on pouch.



ORDERING INFORMATION

580
Micro-ohmmeter with 5804, 5805, 5806 Test Leads and 5801 Test Lead Pouch

580-1
Micro-ohmmeter without Test Leads and Pouch

580/5802
Micro-ohmmeter with Isolated Analog Output/IEEE-488 Interface

580/1978
Micro-ohmmeter with Rechargeable Battery Pack

580/02/78
Micro-ohmmeter with Isolated Analog Output/IEEE-488 Interface and Rechargeable Battery Pack

This product is available with an Extended Warranty. See page 221 for complete ordering information, or call 1-800-552-1115 (U.S. only).

ACCESSORIES AVAILABLE

TEST LEADS
5804 Test Lead Set
5805 Kelvin Probes, 0.9m (3 ft.)
5805-12 Kelvin Probes, 3.6m (12 ft.)
5806 Kelvin Clip Leads
5807-7 Helical Spring Point Test Leads

TEST FIXTURE
8003 Low Resistance Test Fixture

RACK MOUNT KITS
1010 Single Rack Mounting Kit
1017 Dual Rack Mounting Kit

OTHER
1755 Calibration Interface
1978 Rechargeable Battery Pack
5801 Test Lead Pouch
5802 Isolated Analog Output/IEEE-488 Interface

See page 163 for descriptions of all accessories.