



2226a

Digital Micro Ohmmeter



GENERAL

The digital micro ohmmeter type 2226a is an unique instrument capable of handling even the toughest resistance measurement applications. The type 2226a is designed to measure resistance values in the range of 0.1 $\mu\Omega$... 20 k $\Omega.$

APPLICATIONS

- Coils for motors, generators, transformers, generator bars etc.
- Cable wires and screens
- Switches and relay contacts
- Shunts, potentiometers, slide-wires, heater elements etc.

FEATURES

- Four-wire Kelvin principle eliminates lead wire resistances
- Selectable test currents up to 10 A
- Used for quick and accurate low-resistance measurements
- Charging Inductor mode for reduced settling times
- Wide resistance measuring range (0.1 μΩ ... 20 kΩ)
- Digital LCD display 4 1/2 digit with high contrast
- Safe operation by use of status indicators (safe disconnect)
- Available data outputs and remote programming capability via USB interface
- Automatic temperature compensation for copper and aluminium

TECHNICAL SPECIFICATIONS (STANDARD MEASUREMENT MODE) – PRELIMENARY SPECIFICATIONS

Range	Test Voltage	Full Scale	Resolution	Current Source ¹	Accuracy ² (±% of Reading ±Ω)	Temperature ³ Coefficient
2mΩ	20mV	$2.0000 \text{m}\Omega$	100n Ω	10A	± .06 ± .0006m	±50ppm/°C
20 mΩ	20mV	$20.000 \text{m}\Omega$	1μΩ	1A	± .04 ± .006m	±50ppm/°C
200mΩ	20mV	$200.00 \text{m}\Omega$	10µΩ	0.1A	± .04 ± .06m	±50ppm/°C
2Ω	20mV	2.0000Ω	100μΩ	10mA	± .04 ± .0006	±50ppm/°C
20Ω	20mV	20.000Ω	1mΩ	1mA	± .04 ± .006	±50ppm/°C
200Ω	20mV	200.00Ω	10mΩ	0.1mA	± .04 ± .06	±50ppm/°C
20 mΩ	200mV	20.000mΩ	1μΩ	10A	± .06 ± .003m	±50ppm/°C
200m Ω	200mV	$200.00 \text{m}\Omega$	10μΩ	1A	± .04 ± .03m	±50ppm/°C
2Ω	200mV	2.0000Ω	100μΩ	0.1A	± .04 ± .0003	±50ppm/°C
20Ω	200mV	20.000Ω	1mΩ	10mA	± .04 ± .003	±50ppm/°C
200Ω	200mV	200.00Ω	10mΩ	1mA	± .04 ± .03	±50ppm/°C
2k Ω	200mV	2.0000k Ω	100mΩ	0.1mA	± .04 ± .0003k	±50ppm/°C
200mΩ	2V	200.00mΩ	10μΩ	10A	± .06 ± .03m	±50ppm/°C
2Ω	2V	2.0000Ω	100μΩ	1A	± .04 ± .0003	±50ppm/°C
20Ω	2V	20.000Ω	1mΩ	0.1A	± .04 ± .003	±50ppm/°C
200Ω	2V	200.00Ω	$10 m\Omega$	10mA	± .04 ± .03	±50ppm/°C
2k Ω	2V	$2.0000 k\Omega$	$100 \mathrm{m}\Omega$	1mA	± .04 ± .0003k	±50ppm/°C
20k Ω	2V	$20.000 k\Omega$	1Ω	0.1mA	± .04 ± .003k	±50ppm/°C





TECHNICAL SPECIFICATIONS (TEMPERATURE COMPENSATION MODE)

Range	Range Setting	Accuracy ² (±% of Reading ±Ω)
2m	10A/20mV	± .11 ± .0006m
20m	1A/20mV	± .09 ± .006m
200m	.1A/20mV	± .09 ± .06m
2	10mA/20mV	± .09 ± .0006
20	1mA/20mV	± .09 ± .006
200	.1mA/20mV	± .09 ± .06
20m	10A/200mV	± .11 ± .003m
200m	1A/200mV	± .09 ± .03m
2	.1A/200mV	± .09 ± .0003
20	10mA/200mV	± .09 ± .003
200	1mA/200mV	± .09 ± .03
2k	.1mA/200mV	± .09 ± .0003k
200m	10A/2V	± .11 ± .03m
2	1A/2V	± .09 ± .0003
20	.1A/2V	± .09 ± .003
200	10mA/2V	± .09 ± .03
2k	1mA/2V	± .09 ± .0003k
20k	.1mA/2V	± .09 ± .003k

GENERAL SPECIFICATIONS

Display: **Overload Indication: Terminal Configuration:** ADC Conversion Rate: **Display Update:** Maximum Kick-Back Protection: Compliance Voltage (Normal Mode): Compliance Voltage (Charging Inductor Mode): **Open Circuit Voltage (Test Current Off) :** Environmental **Operating Temperature Range:** Humidity: Storage Temperature Range: **Power Requirements** Power Supply Voltage: **Power Supply Frequency: Power Supply Consumption:** Physical Dimensions (W x D x H):

Weight:

SCOPE OF SUPPLY

- Digital micro-ohmmeter 0.1 $\mu\Omega...20$ k Ω ± 0.01 / 0.03 %
- User Manual

a brand of

USB computer interface for data transfer

Notes:

- 1 Current source is ±1% absolute accuracy
- 2 Accuracy specifications are valid following a 30 minute warm-up at an ambient temperature between 22°C and 28°C, and include the effects of line voltage variations within the allowed range.
- 3 Temperature coefficient specified for temperature ranges from 5°C to 21°C and 29°C to 50°C.
- 4 Accuracy specifications valid following a 30 minute warmup at an ambient temperature between 21°C and 29°C.

Multi Section VFD 140px x 32px Display flashes "OVERLOAD" Four-wire Kelvin 45 conversions / second 5 user selections (100ms, 200ms, 300ms, 400ms, 500ms) 500 A Peak Induced Current 7.5 VDC nominal at 10A resistive > 20 VDC when indicator is lit < 20mV between IHI and ILO terminals

0 to 50°C 70% RH at 40°C non-condensing -30°C to 70°C

105-125 or 210-250 VAC 50 - 60 Hz 200 VA Maximum

430 x 430 x 100 mm (17 x 17 x 4 inch.) 9.1 kg (20 lbs) Net; 11.8 kg (26 lbs) Shipping

- Temperature Sensor for aluminium and copper
- Rack Mount Kit for 19" racks
- 4-wire Kelvin cable set, length 1.2

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Hat Holmes