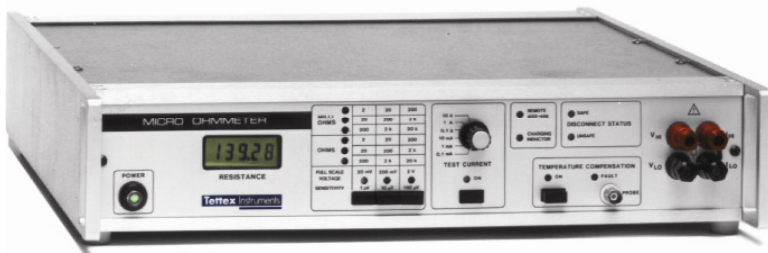




2226

Digital Micro Ohmmeter



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 $\mu\Omega$... 20 k Ω)
- 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 either via IEEE 488 or RS 232 interface
- Automatic temperature compensation for copper and aluminium (option)

GENERAL

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

APPLICATIONS

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

TECHNICAL SPECIFICATIONS

Resistance	Resolution	Measuring current		
2 m Ω	0.1 $\mu\Omega$	10 A	-	-
20 m Ω	1 $\mu\Omega$	1 A	10 A	-
200 m Ω	10 $\mu\Omega$	100 mA	1 A	10 A
2 Ω	100 $\mu\Omega$	10 mA	100 mA	1 A
20 Ω	1.0 m Ω	1 mA	10 mA	100 mA
200 Ω	10 m Ω	100 μA	1 mA	10 mA
2 k Ω	100 m Ω	-	100 μA	1 mA
20 k Ω	1.0 Ω	-	-	100 μA
Full scale voltages		20 mV	200 mV	2 V

Table 1: Range and resolution specifications

GENERAL SPECIFICATIONS

Maximum input current	500 mA
Output voltages	
Normal mode, at 10 A resistive	7.5 V DC
Charging inductor mode	20 V DC
Current source off	< 20 mV DC
Accuracy	
Error limits	$\pm 0.03\%$ of rda ± 2 digits (24 ... 26 °C)
Temperature coefficient	$\pm 0.005\%$ rda/ °C (5 to 24 °C and 26 to 50 °C)
Temperature sensors	$\pm 0.05\%$ rda „AL“ sensor and „CU“ sensor
Temperature compensators	$\pm 0.1\%$ of rated coefficient
CMR ratio	60 dB at DC, 50 and 60 Hz
Overload indication	Display flashes (Indication -1)
Measuring cycle	approx. 400 msec.
Interface	IEEE 488 or RS 232

ENVIRONMENTAL, POWER AND PHYSICAL REQUIREMENTS

Operating temperature range	0 to 50 °C
Relative humidity	70 % relative humidity at 40 °C non condensing
Storage temperature range	-30 to 70 °C
Input voltage	105 to 125 V or 210 to 250 V AC
Input frequency	50/ 60 Hz
Input power	max. 200 VA
Dimensions (H x W x D)	100 x 430 x 430 mm (4 x 17 x 17")
Weight	9.1 kg, 20 lbs (net weight), 11.8 kg, 26 lbs (brut weight)

SCOPE OF SUPPLY

- Digital micro-ohmmeter 0.1 $\mu\Omega$...20 k Ω $\pm 0.01 / 0.03\%$ type 2226 (no. 3490026)
- computer interface for data transfer (IEEE 488 / IEC 625)
- 4-wire Kelvin cable set, length 1.2

OPTIONS

- Sensor for temperature compensation for copper type 2226/1 (no. 0191581)
- Sensor for temperature compensation for aluminium type 2226/2 (no. 0191591)
- Filter for measurements on test sample with inductive component type 2226/3 (no. 0191601)
- Cable for temperature compensation type 2226/4 for options 2226/1 and 2226/2 (no. 0191611)

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