

Benchtop Digital Multimeter **multicomp**PRO



**RoHS
Compliant**

Features

- 3.5 inch high resolution LCD, providing a clear display
- Display max 55,000 counts, DC voltage accuracy up to 0.05%
- Multiple measurement functions: DC/AC Voltage, DC/AV Current, resistance, capacitance measurement, continuity test, diode test, temperature measurement, AC and frequency (AC + Hz) measurement, Max/Min/average measurement (REL_ %)
- Reading rates upto 65 readings per second
- AC True RMS measurement, measurement bandwidth: 20 Hz to 1kHz
- Manual or auto record the measured data into internal memory, and displayed in table
- SCPI supported, remote control the multimeter through PC software via USB (orRS232) port
- AC Power supply for continuous use, maintenance-free

General Specifications

Display Screen	3.5-inch TFT LCD with resolution 480 × 320
Operating Environment	Full temperature from 0°C to 50°C, 80% RH and 40°C, non-condensing Storage Temperature: -20°C to +70°C
Remote Interface	RS232 or USB Device
Programmer Language	Standard SCPI, compatible with commands of main stream multimeters
Warm Up Time	30 minutes
Dimension (W×H×D)	200mm × 86.5mm × 64mm
Weight	0.45 kg

Technical Specifications

Function	Range ^[1]	Resolution	Accuracy: ± (% of reading + LSB) ^[2]
DC Voltage	50.000mV	0.001mV	0.1% + 10
	500.00mV	0.01mV	0.05% + 5
	5.0000V	0.0001V	0.05% + 5
	50.000V	0.001V	0.05% + 5
	500.00V	0.01V	0.1% + 5
	1000.0V[3]	0.1V	0.1% + 10
True RMS AC Voltage ^[4]	500mV – 750V	20Hz – 45Hz	1% + 30
		45Hz – 65Hz	0.5% + 30
		65Hz – 1kHz	0.7% + 30

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Function	Range ^[1]	Resolution	Accuracy: $\pm$ (% of reading + LSB) ^[2]
DC Current	500 μ A	0.01 μ A	0.15% + 20
	5000 μ A	0.1 μ A	0.15% + 10
	50mA	0.001mA	0.15% + 20
	500mA	0.01mA	0.15% + 10
	5A	0.0001A	0.5% + 10
	10 A ^[5]	0.001A	0.5% + 10
True RMS AC Current ^[6]	500cA – 500mA	20Hz – 1kHz	0.5% + 20
	5A – 10A		1.5% + 20
Resistance ^[7]	500 Ω	0.01 Ω	0.15% + 10
	5k Ω	0.0001k Ω	0.15% + 5
	50k Ω	0.001k Ω	0.15% + 5
	500k Ω	0.01k Ω	0.15% + 5
	5M Ω	0.0001M Ω	0.3% + 5
	50M Ω	0.001M Ω	1% + 10
Diode	3.0000V	0.0001 V	1% + 10
Continuity	1000 Ω	0.1 Ω	Adjustable threshold
Frequency	10.000Hz – 60MHz ^[8]	/	$\pm$ (0.2% + 10)
	50nF – 500 μ F	/	2.5% + 10
Capacitance ^[9]	5mF – 50mF	0.1 Ω	5% + 10
Temperature	K type, PT100		
Display	55,000		
Record Interval	15mS – 9999.999S		
Record Length	1,000 points		

Notes:

^[1]Specifications are for 30-minute warm-up, "Low" measurement rate and calibration temperature 18°C - 28°C.

^[2]10% over range on all ranges, except 1,000V DCV, 750 ACV, 10A DCI, 10A ACI, 50M Ω resistance, and 50mF capacitance.

^[3]For each additional volt over $\pm$ 500V DC add 0.02mV of error.

^[4]Specifications are for amplitude of sine wave input >5% of range. 0.1% errors will be added when the range of input sine wave is 1% to 5%.

^[5]30 seconds OFF after 30 seconds ON is recommend for the continuous current that higher than DC 7A or AC RMS 7A.

^[6]Specifications are for amplitude of sine wave input > 0.5% of range. For inputs from 1% to 5% of range, add 0.1% of range extra error.

^[7]Specifications are for 2-wire ohms using the relative operation of math. Without relative operation, add $\pm$ 0.2 Ω additional error in 2-wire ohms function.

^[8]Except for special marks, when frequency $\leq$ 10M Hz, the specification is applicable to >1V AC input voltage, when frequency > 10 MHz, the specification is applicable to >3V AC input voltage.

^[9]Specifications are for using the relative operation of math. Using of non-film capacitor may generate additional errors. Specifications are for from 5% to 110% on ranges.

DMM can only test the DC current, can't use as load. DMM can't always test DC current. 30S is enough for testing current.

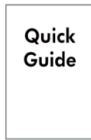
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Accessories

The accessories subject to final delivery.



Power Cord



Quick Guide



USB Cable



Multimeter Lead



Fuse

Part Number Table

Description	Part Number
Benchtop Digital Multimeter, 3.5" LCD, 55000 Counts	MP730889 US

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