

MDM8165A/MDM8165 6 1/2 DIGITAL MULTIMETER

Digital MULTIMETER is widely used in the field of electronic testing.

This MULTIMETER, the unique part is its double benchmark function. It means users only need one 10V voltage and one 10K Ω standard resistance to realize all the functions of calibration. The whole process will take no more than 1 hour.

Basic features

6 1/2 resolution (MDM8165A/MDM8165)

3.5-inch color display screen (resolution ratio 320*480)

Graphic display

Double parameter display

GPIB,RS-232, LAN ,USB interface are optional.

functions of trigger input and output of measuring completion.

Software could be updated by customers

two-wire and four -wire resistance measurement ,temperature measurement

10 Ω and 1G Ω 's extension range

current measurement capacity reaches up to 12A

Many math functions

Measuring speed: 0.02NPLC- 100NPLC

Support SCPI language

General technical specifications:

Power voltage: 220V.AC plus or minus 10%, 45~66Hz, or 2110V.AC plus or minus 10%, 45~440Hz

Function: < 20W

Display: 3.5-inch TFT LCD, resolution 48x320, color 16M

Temperature range: - 5 $^{\circ}$ C ~ + 45 $^{\circ}$ C

Humidity range: 5%~85% relative humidity

Interface: RS232, USB Host, USB Device, LAN, GPIB (only 1260B support), Wi-Fi and blue tooth are optional

Size and weight: 265mm*105mm*335mm (W* H * D), Weight: 2.7kg

Parameter indicators

Model		MDM8165	MDM8165A
Display		3.5-inch color screen (resolution 320*480)	
Accordinging digits		6 ¹ / ₂	
Signal terminal		front-end/back-end	front-end
Maximum measurement speed		2500 readings per second	
Function	Items	uncertainty,±(% measurement + % range)	
DCV	Uncertainty	0.0035+ 0.0005	
	Measuring Range	0 mV~1000 V	
	Maximum Resolution	100nV	
ACV	Uncertainty	0.06 + 0.03	
	Measuring Range	1 mV~750 V	
	Maximum Resolution	100nV	
	Frequency range	3 Hz ~ 300 kHz	
DCI	Uncertainty	0.05 + 0.006	
	Measuring range	0 uA ~ 12 A	
	Maximum resolution	10 pA	
ACI	Uncertainty	0.10 + 0.04	
	Measuring range	1 uA ~ 12 A	
	Maximum resolution	100 pA	
	Frequency range	3 Hz ~ 10 kHz	
Resistance	Uncertainty	0.01 + 0.001	
	Measuring range	0 Ω ~ 1 GΩ	
	Maximum resolution	10 uΩ	
Frequency/period	Uncertainty	0.01%	
	Measuring range	3 Hz ~ 1 MHz	
	Maximum resolution	1 uHz	

Capacitance	Uncertainty	1 + 0.3
	Measuring range	0 nF ~ 100 mF
	Maximum resolution	1 pF
On- off/diode	yes	
Proportion(DC: DC)	Reference range	100mV ~ 10 V
	Input range	100mV ~ 1000 V
Temperature	Type	Platinum resistance, thermistor, custom sensor
	Maximum resolution	0.001°C
Mathematical functions	Relative to (ax + b), maximum/minimum/average, standard deviation, dB, dBm, read retention, limit test	
Graphics	Histogram, trend graph	
Interface	RS-232,IEEE 488,LAN,USB Device,USB Host,Trig IN/OUT	
Programming language	SCPI Compatible with Agilent 34401A ,34410 and Fluke 45	
Data storage capacity	512K	