



Bench Top Digital Multimeter ODM6500

- 1199999 count, 6 ½ digit, Large-screen dual-display VFD with high brightness display.
- 12 measurement functions, including DCV/ACV (1000 V/750 V), DCI/ACI (10 A/10 A), Ω (100 M Ω), frequency/period, diode, Continuity, dBm, dB, etc.
- True RMS AC voltage and current measurements, bandwidth up to 100 kHz.
- Built-in mX +b, %, dB, dBm math calculation function.
- 512 readings storage and MAX/MIN/AVER/STD statistics.
- RS232 (optional), USB, GPIB (optional) interface.

Model		ODM6500				
Test function	Test parameter	DCV, ACV, DCI, ACI, Ω 2 W, Ω 4 W, freq, peri, cont, diode				
	Mathematics function	mX+b, %, dB, dBm, REL				
	Range	Auto, Manual				
	Display	VFD				
	Trigger Mode	INT/MAN/BUS/EXT				
	Programmable Time Delay	0 – 6000 mS				
	Reading storage and statistics	2 to 512 readings can be stored, loaded and counted Type of statistics: MAX,MIN,AVER,STD				
	Reading Hold	To find out best stable reading for each data block of the given reading number according				
	Limitation measurement	To judge HI,IN,LO and display, with ALARM for HI/LO				
	Setup storage	10 setup files can be stored and loaded				
	Calibration	Recommend Fluke5520 A with Accuracy Calibration software (option)				
	Communication interface	SCPI command support for GPIB (optional), RS232 (optional) and USB (standard) interface				
Full Scale Reading digits and Reading Rate (meas/sec)	Rate	Slow	Med	Fast		
	Full scale reading (digits)	1,199,999	119,999	11,999		
	Reading rate (meas/sec)	DC V,DC I	2	16	57	
		AC V,AC I	1.5	4	25	
		Ω 2 W	2	16	47	
	Ω 4 W	1.5	10	33		
DCV	Range	Max. reading	Resolution	Accuracy	Input impedance	
	100 mV	119.9999	0.1 μV	0.0065+0.0045	>10 GΩ	
	1 V	1.199999	1 μV	0.0040+0.0009	>10 GΩ	
	10 V	11.99999	10 μV	0.0035+0.0005	>10 GΩ	
	100 V	119.9999	100 μV	0.0045+0.0006	10 MΩ	
	1000 V	1010000	1 mV	0.0055+0.0015	10 MΩ	
DCI	Range	Max. reading	Resolution	Accuracy	Burden voltage/shunt resistor	
	10 mA	11.99999	10 nA	0.05+0.004	<0.15 V/10.1 Ω	
	100 mA	119.9999	0.1 μA	0.05+0.004	<1.5 V / 10.1 Ω	
	1 A	1.199999	1 μA	0.08+0.004	<0.3 V / 0.1 Ω	
	10 A	11.99999	10 μA	0.25+0.004	<0.15 V / 10 mΩ	
ACV	Range	100 mV	1 V	10 V	100 V	750 V
	Max. reading	119.9999	1.199999	11.99999	119.9999	757.5
	Resolution	0.1 μV	1 μV	10 μV	100 μV	1 mV
	10 ~ 20 Hz	1.50+0.20				
	20 ~ 50 Hz	0.50+0.10				
	50 Hz ~ 100 Hz	0.10+0.03				
	100 ~ 20 kHz	0.05+0.03			0.08+0.03	
	20 ~ 50 KHz	0.15+0.05	0.11+0.05		0.18+0.05	
	50 ~ 100 KHz	0.60+0.08				
	100 ~ 300 kHz	4.00+0.05				
ACI	Range	10 mA	1 A	10 A		
	Max. reading	11.99999	1.199999	11.99999		
	Resolution	10 nA	1 μA	10 μA		
	10 Hz ~ 20 Hz	1+0.08			1.60+0.10	
	20 Hz ~ 50 Hz	0.50+0.03			0.60+0.30	
	50 Hz ~ 100 Hz	0.10+0.3	0.12+0.03		0.15+0.03	
	100 Hz ~ 2 kHz	0.05+0.03	0.10+0.04		0.12+0.04	
	2 kHz ~ 5 kHz	0.10+0.03	0.50+0.03		0.60+0.05	
	5 kHz ~ 10 kHz	0.20+0.03	2.00+0.10		2.50+0.10	
	Burden voltage/shunt Resistor	<0.15 V/10 Ω	<0.3 V/0.1 Ω		<0.15 V/10 mΩ	
Ω 2 W/Ω 4 W	Range	Max. Reading	Resolution	Measurement current	Accuracy	
	100 Ω	119.9999	100 μΩ	1 Ma	0.010+0.004	
	1 kΩ	1.199999	1 mΩ	1 mA	0.010+0.001	
	10 kΩ	11.99999	10 mΩ	100 μA	0.010+0.001	

Model		ODM6500			
Ω 2 W/Ω 4 W	Range	Max. Reading	Resolution	Accuracy	Sensitivity (Sine Wave)
	100 kΩ	119.9999	100 m Ω	10 μA	0.010+0.001
	1 MΩ	1.199999	1 Ω	10 μA	0.010+0.001
	10 MΩ	11.99999	10 Ω	7.0×Rx/ (10 M+Rx)	0.040+0.001
	100 MΩ	119.9999	100 Ω	7.0×Rx/ (10 M+Rx)	0.800+0.010
Frequency	Range	Max. Reading	Resolution	Accuracy	Sensitivity (Sine Wave)
	5 Hz ~ 10 Hz	9.999999	1 μHz	0.05+0.1	200 mV rms
	10 Hz ~ 100 Hz	99.99999	10 μHz	0.01+0.01	40 mV rms
	100 Hz ~ 100 kHz	999.9999	10 mHz	0.005+0.002	40 mV rms
	100k ~ 1.1 MHz	1099.999	0.1 Hz	0.005+0.002	100 mV rms
Measurement condition		Calibration interval	one year		
		Operation Humidity	8°C–28°C , ≤90%RH; When resistor range is 10 M and 100 M, ≤70%RH		
		Warming up time	30 min		
		Accuracy is expressed as	± % of reading +% of range)		
		Temperature coefficient	°C~18°C & 28°C~40°C,+0.1%×accuracy /°C		
		This is the specification at slow mode.			
General Specifications	Operating Temperature and Humidity		0°C–40°C, ≤90%RH		
	Power Requirements	Voltage	99 V–121 V AC ,198 V–242 V AC		
		Frequency	47.5 Hz–63 Hz		
	Power Consumption		20 VA max.		
	Dimensions		277 mmx115 mmx365 mm (W×H×D)		
	Weight		2.5 kg Approx.		

Accessories

ODM6500-A1	Test Leads One Pair (Black And Red) Power Cord
ODM6500-A2	GPIB Interface Board
ODM6500-A3	RS232C Control Software
ODM6500-A4	Glided Shorting Plate
ODM6500-A5	4 Terminal Kelvin Test Clip
ODM6500-A6	SMD Component Test Clip
ODM6500-A7	Accuracy Calibration software