



METER

- **PROTABLE MULTIMETER**
- BENCHTOP MULTI METER
- PROTABLE LCR METER
- TRANSISTOR TESTER
- DIGITAL EARTH TESTER
- INSULATION RESISTANCE TESTER



- . BLE 4.0 wireless transmission, more stable, less power consumption
- . Chart and Diagram mode helps to analyze the data tendency
- . 3 5/6 bit resolution, LCD 69x52 / 47x27 mm
- . Data Logger + Multimeter + Thermometer
- . Support NCV non-contact voltage sense
- . True RMS test supported
- . Widely supported on Android, iOS and Windows
- . Build-in offline record function supports non-stop up to 7 days non-stop recording

functioning as multimeter + datalogger







data-saving, recalling, and comparatively analyzing







MU16A/MU16B (€ NEW

Features

Auto ranging
Auto/Manual Scale Switch
LCD Backlight
Diode Test
Sleep Mode
Auto Power-off
Continuity Test

Bluetooth Module for MU16B
Data Hold
Audion Test
True RMS
Input Protection
Relative Measurement

Low-battery Indicator



MU16B

Technical Data	Measurement Range	Resolution	Accuracy	
DC voltage	600.0mV/6.000V/60.00V/600.0V	0.1mV	\pm (0.5%+2 dig)	
DC voltage ———	1000V	1V	\pm (0.8%+2 dig)	
	600.0mV	0.1mV	\pm (2.0%+5 dig)	
AC voltage	6.000V/60.00V/600.0V	1mV	\pm (0.8%+3 dig)	
	750V	1V	\pm (1.0%+3 dig)	
	600.0uA/6000uA	0.1uA	\pm (0.8%+2 dig)	
DC current	60.00mA/600.0mA	0.01mA	\pm (0.8%+2 dig)	
	10.00A	0.01A	\pm (1.2%+3 dig)	
	600.0uA/6000uA	0.1uA	\pm (1.0%+3 dig)	
AC current	60.00mA/600.0mA	0.01mA	\pm (1.0%+3 dig)	
	10.00A	0.01A	\pm (1.5%+3 dig)	
Resistance	600.0Ω/6.000kΩ/60.00kΩ/ 600.0kΩ/6.000MΩ	0.1Ω	\pm (0.8%+2 dig)	
	60.00ΜΩ	0.01ΜΩ	\pm (2.0%+3 dig)	
Capacitance	60.00nF/600.0nF/ 6.000µF/60.00µF	0.01nF	\pm (3.0%+3 dig)	
·	600.0µF/6.000mF/60.00mF	0.1µF	\pm (3.0%+5 dig)	
Frequency	9.999Hz/99,99Hz/999.9Hz/		\pm (0.8%+2 dig)	
Duty Patio(9/)	0.1%~99.9% (Typical: Vrms=1V,f=1kHz)	0.1%	\pm (1.2%+3 dig)	
Duty Ratio(%) ———	0.1%~99.9% (≥1kHz)	0.1%	\pm (2.5%+3 dig)	
Temperature —	- 50 ℃~400 ℃	1℃	\pm (2.5%+3 dig)	
remperature ———	- 58 ℉ ~ 752 ℉	1 °F	\pm (4.5%+5 dig)	
Display		5999		
Frequency Response		40Hz-1000Hz		
Shift Rate		3 times/s		
Input Impedance		≥10MΩ		
Battery		3V (1.5V x 2) AA		
Dimension (W x H x D)		74 x 154 x 49 mm		
Weight		290g		



MU18A/MU18B (€ NEW

Features

Auto ranging Bluetooth Module Only for MU18B

True RMS LCD Backlight

Diode Test Automatic-manual Range Selection

Auto Power-off Input Protection

On-off Warning Relative Measurement Low-battery IndicatorFlashlight

Data Hold NCV

Safety Compliance 600V CAT IV, 1000V CAT III



MU18B

Technical Data	Measurement Range	Resolution	Accuracy	
DC voltage	60.00mV/600.0mV	0.01mV	\pm (0.5%+2 dig)	
	6.000V/60.00V/600.0V	0.1mV	\pm (0.5%+2 dig)	
	1000V	1V	\pm (0.8%+2 dig)	
	60.00mV/600.0mV	0.01mV	\pm (0.8%+3 dig)	
A.C. voltogo	600.0mV	0.1mV	\pm (2.0%+5 dig)	
AC voltage ———	6.000V/60.00V/600.0V	1mV	\pm (0.8%+3 dig)	
	750V	1V	\pm (1.0%+3 dig)	
	600.0uA/6000uA	0.1uA	\pm (0.8%+2 dig)	
DC current	60.00mA/600.0mA	0.01mA	\pm (0.8%+2 dig)	
	20.00A	0.01A	\pm (1.2%+3 dig)	
	600.0uA/6000uA	0.1uA	\pm (1.0%+3 dig)	
AC current	60.00mA/600.0mA	0.01mA	\pm (1.0%+3 dig)	
	20.00A	0.01A	\pm (1.5%+3 dig)	
Resistance	600.0Ω/6.000kΩ/60.00kΩ/ 600.0kΩ/6.000MΩ	0.1Ω	\pm (0.8%+2 dig)	
	60.00ΜΩ	0.01ΜΩ	\pm (2.0%+3 dig)	
Capacitance	60.00nF/600.0nF/ 6.000µF/60.00µF	0.01nF	\pm (3%+3 dig)	
	600.0µF/6.000mF/60.00mF	0.1µF	\pm (3.0%+5 dig)	
Frequency	9.999Hz/99,99Hz/999.9Hz/ 9.999kHz/99.99kHz/ 99.9kHz/9.999MHz	0.001Hz	\pm (0.8%+2 dig)	
Duty Ratio(%) ———	0.1%~99.9% (Typical: Vrms=1V,f=1kHz)	0.1%	\pm (1.2%+3 dig)	
Duty Ratio(%)	0.1%~99.9% (≥1kHz)	0.1%	\pm (2.5%+3 dig)	
Tomonounturo	- 50 ℃~400 ℃	1℃	\pm (2.5%+3 dig)	
Temperature ———	- 58 °F ~ 752 °F	1 °F	\pm (4.5%+5 dig)	
Display		5999		
Frequency Response		40Hz-1000Hz		
Shift Rate		3 times/s		
Input Impedance		≥10MΩ		
Battery		9V 6F22		
Dimension (W x H x D)		90 x 190 x 56 mm		
Weight		320g		





Features

.3 1/2 digit display (MT3804 4 1/2)
.Capacitor, frequency and temperature measuring
.Max. test voltage up to 1000V
.Various kinds of function: auto power off, diode test, triode test, On/Off buzzer and data hold



MT 3804

Technical Data		MT3803	MT3804
DC voltage -	Range	200mV/2V/20V/200V/1000V	200mV/2V/20V/200V/1000V
	Accuracy	\pm (0.5%+2)	±(0.1%+3)
AC voltage	Range	2V/20V/200V/1000V	2V/20V/200V/1000V
	Accuracy	\pm (0.8%+3)	\pm (0.5%+20)
	Bandwidth	45Hz~400Hz	45Hz~400Hz
DC current -	Range	200 µ A/2mA/20mA/200mA/10A	200 µ A/2mA/20mA/200mA/10A
	Accuracy	\pm (0.8%+2)	\pm (0.5%+20)
	Range	2mA/20mA/200mA/10A	2mA/20mA/200mA/10A
AC current	Accuracy	±(1.0%+3)	±(0.8%+40)
	Bandwidth	45Hz~400Hz	45Hz~400Hz
B	Range	$\begin{array}{l} 200\Omega/2k\Omega/20k\Omega/200k\Omega \\ 2M\Omega/20M\Omega \end{array}$	$200\Omega/2k\Omega/20k\Omega/200k\Omega$ $2M\Omega/20M\Omega/200M\Omega$
Resistance -	Accuracy	±(0.8%+3)	±(0.5%+10)
_	Test Current	0.7 μ A~1mA	0.7 µ A~1mA
0 11	Range	20nF/2uF/200uF	20nF/2uF/200uF
Capacitor	Accuracy	±(4%+3)	±(4%+10)
Tomporatura	Range	-40℃~1000℃	-40℃~1000℃
Temperature	Accuracy	±(1.2%+3)	±(1.2%+25)
_	Range	2kHz/200kHz	2kHz/200kHz
Frequency	Accuracy	\pm (1.5%+5)	±(1.2%+10)
	Input Sencitivity	40mVrms	40mVrms
Diode test		√	√
On/Off buzzer		√	√
Triode test		√	√
Data hold		√	√
Background light		√	\checkmark
Low battery warnir	ng	√	<i>√</i>
Max display		1999	19999
Power supply		AC 220V/50Hz or	R14 1.5V*6
Weight	1.5kg		
Dimensions (W×F	(H×D) 240×105×370mm		





Features

.5 1/2 digit display
.USB and RS232 interface
.Capacitor and frequency measuring
.Max.test voltage up to 1000VDC and 750VAC
.Various kinds of function: auto measuring range diode test, triode test, On/Off buzzer and data hold



MT 3805

Technical Data		MT3805	
DC voltage -	Range	200mV/2V/20V/200V/1000V	
	Accuracy	\pm (0.015%+3)	
	Range	200mV/2V/20V/200V/750V	
AC voltage	Accuracy	\pm (0.2%+100)	
	Bandwidth	40Hz~100kHz	
DC current	Range	2mA/200mA/10A	
Bo ourroint	Accuracy	\pm (0.05%+10)	
	Range	2mA/200mA/10A	
AC current	Accuracy	±(0.3%+100)	
	Bandwidth	40Hz~5kHz	
Resistance	Range	200 Ω /2k Ω /20k Ω /200k Ω /2M Ω /20M Ω	
Resistance	Accuracy	$\pm (0.02\%$ +6)	
0	Range	60nF/600nF/6 µ F/60 µ F/600 µ F/6mF	
Capacitor	Accuracy	±(2%+5)	
	Range	10Hz~60MHz	
	Accuracy	±(0.1%+3)	
Frequency	Input range	1Hz~1MHz:150mV~30Vrms >1MHz~10MHz:300mV~30Vrms >10MHz~50MHz:600mV~30Vrms >50MHz:Not Specified	
Diode test		 √	
On/Off buzzer			
Triode test			
Data hold		√	
Ture RMS		\checkmark	
Auto measuring r	ange	\checkmark	
RS232C			
USB	\checkmark		
Full character dis	splay	√	
Sleep mode		√	
Input resistance	<u> </u>		
Max display		199999	
Power supply		AC 220V/50Hz	
Weight	<u>=</u>		
Dimensions (W×	H imes D)	240×105×370mm	



BR2831/BR2832/BR2833

(€

Features

.Hand-held and low consumption

.4 bins comparator
.Primary and secondary parameters dual display
.0.1% Max. accuracy, resolution 0.0001
.Auto power off function

Test parameters	L, C, D, R, Z , Q, θ, ESR		
Test frequencies	100Hz, 120Hz, 1kHz (BR2831) 100Hz, 120Hz, 1kHz, 10kHz (BR2832) 100Hz, 120Hz, 1kHz, 10kHz, 100kHz (BR2833)		
Test level	0.6Vrms		
Max. test accuracy	0.1%		
Output impedance	100 Ω		
	100 / 120Hz		
	100 / 120Hz 1p ~ 20mF C 1kHz 0.1p ~ 1000 μ F 10kHz 0.01p ~ 100 μ F		
Measurement range	R, IZI $0.0001 \Omega \sim 10 M \Omega$		
	D 0.0001~9.999		
	Q 0.0001~9.999		
	θ -179.9% ~ 179.9%		
	ESR $0.0001 \Omega \sim 999.9 \Omega$		
Display	40000 counts		
Display resolution	0.0001		
Measurement speed	10 times /sec (fast) 5 times/sec (middle) 2 times/sec (slow)		
Eauivalent circuit	Series / parallel		
Ranging mode	Auto / hold		
Range selecting	Auto		
Tolerance mode	1%, 5%, 10%, 20%		
Correction function	Open and short multi-frequency Zeroing		
Measurement terminals	Five terminals/three terminals		
Input protection fuse	0.1A/63V		
Battery model	7.2V Ni-MH 600mAH rechargeable battery		
AC adapter	Input: 230V±10%, 50Hz±5% Output: 12V~15VDC		
Operating current	Max. 28mA		
Auto power off	5min, 15min, 30min, 60min selectable		
$\overline{Dimensions(W {\times} H {\times} D)}$	95mm × 200mm × 45mm		
Weight	460g (with battery)		



BR2832

(€ **TST294**

Features

- .Various semiconductor DC parameters transistor, diode, triac, FET .Capacitor withstand voltage

- .Varistor protection voltage
 .Electrical appliance insulation
 .78 & 79 series voltage regulator
 .Neon bulb and lamp starting voltage
- .AC voltage test



Parameter	Measuring range	Display	Resolution	Operating condition	
V _(BR) Breakdown voltage	1000V	0~1000	1V	Breakdown current less than 1mA	
	200V	0~199.9	0.1V	breakdown current less than TimA	
	2A(I _c)	 0~6.00 		I₀ approx.2000mA I₀ approx.200mA	
V _{CE(sst)} Collector-emitter saturation voltage drop	800mA(I _c)		0.01 -	I _o approx.800mA I _b approx.80mA	
	100mA(I _c)		- 0~6.00	0.01 –	I₀ approx.100mA I₀ approx.10mA
	10mA(I _c)		_	I₀approx.10mA I₀approx.1mA	
	10mA(I _b)	0~199.9	0.1	I _c approx.10mA	
hFE DC current gain	1mA(I _b)	— 0~1999	4	I₅ approx.1mA	
	10uA(I _b)		1 -	I₀approx.0.01mA	
I _{ceo} Reverse leakage current	2000 µ A	0~1999	1 µ A	Testing voltage approx.27V	
78 & 79 voltage regulation	78XX/79XX	0~24.0	0.1V		
Power source	1.	5V alkaline batte	ry(AA)x4 or 6VD0	C/2A power supply	
Dimensions (W \times H \times D)	150×70×100mm				
Weight	670g				

DIGITAL EARTH TESTER INSULATION RESISTANCE TESTER

DET4000 SERIES DIGITAL EARTH TESTER (€

Features

- .Conductor resistance measurement (DET4300)
- .Soil resistivity measurement(DET4300)
- .LCD background light
- .Data hold
- .Working LED indicator
- .Low battery warning
- .Function symbol display





DET4200

Technical Data		DET4200	DET4300
			0.05~2.099 Ω , 0.05~20.99 Ω
Farth Resistance Test	Range	$0\sim\!20\Omega$, $0\sim\!200\Omega$, $0\sim\!2000\Omega$	0.3 ~209.9 Ω , 3~2009.9 Ω
Latti Nesistance lest			0.03k~20.99kΩ, 0.03k~209.9kΩ
	Best Accuracy	\pm (5% Rdg+2digits)	\pm (3% Rdg+5digits)
Resolution		0.01 Ω	
Earth Voltage Test	Range	0~30VAC(50/6	60Hz)
Earth voltage rest	Best Accuracy	\pm (2% Rdg +5 $^{\circ}$	digits)
Power Source		1.5V alkaline battery(AA)x8	1.5V alkaline battery(AA)x4
Dimensions (W×H×D)	190×75×155	mm
Weight		900g	
Accessories	one set standard earth test leads, one set simple earth test leads, one carry case		

DIT5000 SERIES DIGITAL INSULATION RESISTANCE TESTER (

Features

.Multi Test Voltage

.Auto range (insulation only)

.LCD background light

.Data hold

.Working LED indicator

.Low battery warning

.Function symbol display

.AC Voltage Test





Technical Data		DIT5104	DIT5105	
Test Voltage		250/500/1000/2500V	100/250/500/1000V	
Insulation Resistance	ce	0.1M Ω ~20G Ω		
Accuracy		\pm (3% Rdg +5digits)		
Resolution		0.01ΜΩ		
AC Voltage Test	Range	600VAC		
AC voltage lest	Accuracy	\pm (2% Rdg +5digits)		
Power Source		1.5V alkaline battery(AA)x8		
Dimensions (W×H×	\times H \times D) 190 \times 75 \times 155mm		<155mm	
Weight		900g		
Accessories		one set standard insulation test leads, one carry case		