



MT329 Bluetooth Handheld Multifunction Tester

The MT329 is a handheld multifunction tester that combines Insulation and Continuity testing, Resistance, Loop Impedance, RCD, Voltage, and Phase Sequence tests in one device. The Loop Impedance test offers two methods: a high-current test up to 18.3A and a ZL-PE RCD range test that ensures RCDs rated above 30mA do not trip during the test. The MT329 features several RCD test functions, including Auto Test, Residual Current Test with various current settings, and RCD Test Time. The insulation test function operates at 250V, 500V, and 1000V, measuring insulation resistance up to 4000MΩ with automatic discharge after testing. It also provides Low Ohm Resistance measurements. Additional functions include AC and DC voltage measurement, an AC+DC auto-mode, Data Hold, and auto power-off. The large backlit multi-LCD displays simultaneous measurements, ensuring clear visibility. With a CAT IV 600V rating, the MT329 provides a high level of safety. The meter also features Bluetooth communication and internal memory for data storage and transfer. The Bluetooth app, compatible with both Android and iOS, enhances versatility, making the MT329 suitable for troubleshooting and preventative maintenance tasks for electricians.



**Ergonomically
Designed for Easy,
One-handed
Measurements.**



**Easy to Identify
Input Terminals**



**Magnetic Strap
Enables Hands-Free
Testing**



**Backlit LCD Display
with Simultaneous
Readings**

Features

- 3 insulation test range 250V, 500V, 1000V
- Insulation Resistance up to 4000MΩ
- Measures AC and DC voltage up to 500V
- AC+DC Mode and Data Hold
- Loop Impedance testing with a high current of up to 18.3A
- Loop Impedance measurement of RCD not tripping above 30mA
- PFC and PEFC readings
- Phase Sequence Test
- Type-A, Type AC and Type-B RCD Testing
- RCD Trip time tA 0.5s, tA 1s, tA 2s, tA 5s,
- RCD AUTO test and RCD Trip level
- Auto discharge of voltage test signal
- Download stored data to iOS or Android App via Bluetooth
- Auto Power Off

Function	Range	Accuracy
AC Voltage	0.1V – 500.0V	±(2.0% +5)
DC Voltage	0.1V – 500.0V	±(2.0% +5)
Duty Cycle	0.0% – 100.0%	±(2.0% +5)
Low Voltage Continuity	0.01Ω – 400Ω	±(2.0% +5)
Low Current Resistance	0.1Ω – 1999Ω	±(2.0% +5)
Phase Sequence Test	100V – 550V (45Hz to 65Hz)	
Insulation		
Insulation Test Range	250V – 500V – 1000V	
Measuring Range	0.001MΩ – 4000MΩ	
Rated Current	1mA	
Low Ohm (Continuity)	0.01Ω - 400Ω	
Open Short Circuit Voltage	4 ... 9V DC	
Measurement Current	200mA	
Loop Impedance		
ZL-PE, ZL-N, ZL-L	0.1Ω – 9999Ω (Max 18.3A at 550V)±(5.0% +5)	
PSC / PEFC	0.001A – 40.0kA (Calculated based on Zs & rated Voltage)	
Voltage Range	180V to 550V AC	
ZL-PE RCD	0.1Ω – 9999Ω (No-Trip) ±(6.0% +5)	
PSC / PEFC	0.001A – 20.0kA (Calculated based on Zs & rated Voltage)	
Voltage Range	180V to 550V AC	
Size	210 x 97 x 68mm	
Weight	634g	



Download the Free App
Major Tech Meter-X



MT329

Handheld Multifunction Installation Tester



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RMS Leakage Current during RCD time measurements

$I_{\Delta n}$	Multiplication Factor Setting											
	0.5			1			2			5		
10	5	3.5	5	10	20	20	20	40	40	50	100	100
30	15	10.5	15	30	42	60	60	84	120	150	210	300
100	50	35	50	100	140	200	200	280	400	500		
300	150	105	150	300	420	600						
500	250	175	250	500								
1000	500	350	500									

RCD $I_{\Delta n}$ tripping current measurement for sinusoidal residual current

Selected RCD Rated Current	Measurement Range	Test Current	Step Size	Basic Uncertainty
10 mA	3.0 ~ 11.0 mA	$0.3 \times I_{\Delta n} \sim 1.1 \times I_{\Delta n}$	10% of $I_{\Delta n}$	$\pm 10\% I_{\Delta n}$
30 mA	9.0 ~ 33.0 mA			
100 mA	30 ~ 110 mA			
300 mA	90 ~ 330 mA			
500 mA	150 ~ 550 mA			

RCD tripping test and t_A tripping time measurement

RCD Type	Multiplication Factor Setting	Measurement Range	Accuracy
General	$0.5 I_{\Delta n}$	10.0ms-300ms	$\pm(2\%+10\text{digits})$
	$1 I_{\Delta n}$	10.0ms-300ms	
	$2 I_{\Delta n}$	10.0ms-150ms	
	$5 I_{\Delta n}$	10.0ms-40ms	
Selective	$0.5 I_{\Delta n}$	10.0ms-500ms	
	$1 I_{\Delta n}$	10.0ms-500ms	
	$2 I_{\Delta n}$	10.0ms-200ms	
	$5 I_{\Delta n}$	10.0ms-150ms	

RE-protective conductor resistance for RCD

Selected RCD Rated Current	Measurement Range	Test Current	Accuracy
10mA	10 Ω - 5000 Ω	4 mA	0 ~ +10% ± 8 digits
30mA	10 Ω - 1660 Ω	12 mA	0 ~ +10% ± 5 digits
100mA	1 Ω - 500 Ω	40 mA	0 ~ +5% ± 5 digits
300mA	1 Ω - 166 Ω	120 mA	
500mA	1 Ω - 100 Ω	200 mA	
1000mA	1 Ω - 50 Ω	400mA	

Measurement of Touch Voltage U_B Referred to Rated Residual Current

Range	Test Current	Basic uncertainty
0.1V – 99.9V	$0.4 \times I_{\Delta n}$	0 to 10% ± 5

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