

IN2203

Advanced insulation tester

CAT III
1000VCAT IV
600V

Key features

- Insulation resistance test voltages 50V, 100V, 250V, 500V & 1000V
- Insulation test range up to 20GOhms
- Live circuit detection
- Low ohms earth-bond continuity test (200mA)
- Voltage measurement up to 1000V
- Resistance measurement up to 600K Ohms
- Continuity test with buzzer
- Measurement of polarisation index & dielectric absorption rate
- Safety rating EN 61010 600V CAT IV / 1000V CAT III

The Martindale IN2203 Advanced Insulation tester is the ideal solution for both installation and service applications, combining a wide range of measurement functions in a single device. This compact unit incorporates a fully functioning insulation tester plus additional handy electrical measurement functions.

For insulation testing the IN2203 features five selectable insulation test voltages up to 1000V, capable of measuring up to 20G Ohms. It also incorporates a Lo-ohms earth-bond continuity (200 mA) test. For safety, the live circuit detection check inhibits testing on circuits where voltage is present.

For measurement of true insulation quality and its performance over time, the IN2203 includes measurement capability for both Polarisation Index (PI), the measure of insulation quality (ratio of long-term to short-term insulation resistance) and Dielectric Absorption Ratio (DAR): an indication of insulation condition (ratio of medium-term to short-term insulation resistance).

Additional functions included with the IN2203 are measurement of AC and DC Voltage up to 1000V and standard, accurate resistance measurement up to 600K Ohms. The unit also incorporates a continuity test with an audible buzzer.

The extremely rugged IN2203 is supplied with a rubber holster to protect the unit in harsh environments, while the large LCD display with backlight makes it easy to use even in the most challenging of lighting conditions. Auto power off after 10 minutes will prolong battery life. The unit is supplied with a Martindale TC57 heavy denier nylon carry case, which will accommodate many different accessories. The Martindale TL47 unfused test lead set is also included.

Model	IN2203	
INSULATION TEST VOLTAGE	MEASUREMENT RANGE	ACCURACY
50V	30KΩ - 1.00GΩ	± (3% of reading + 5 digits)
100V	60KΩ - 2.00GΩ	± (3% of reading + 5 digits)
250V	0.15MΩ - 1.50GΩ	± (3% of reading + 5 digits)
	1.50GΩ - 5.0GΩ	± (10% of reading + 3 digits)
500V	0.30MΩ - 3.00GΩ	± (3% of reading + 5 digits)
	3.00GΩ - 10.0GΩ	± (10% of reading + 3 digits)
1000V	0.60MΩ - 6.00GΩ	± (3% of reading + 5 digits)
	6.00GΩ - 20.0GΩ	± (10% of reading + 3 digits)
AC / DC VOLTAGE		
Range	60.00V / 600.0V / 1000V	
Resolution	0.01V / 0.1V / 1V	
Accuracy (AC: 45 - 500Hz)	± 2% of reading + 5 digits	
RESISTANCE		
Range	600.0Ω / 6.000KΩ / 60.00KΩ / 600.0KΩ	
Resolution	0.1Ω / 0.001KΩ / 0.01KΩ / 0.1KΩ	
Accuracy	± 2% of reading + 5 digits	
CONTINUITY		
Range	600.0Ω	
Resolution	0.1Ω	
Beeper	≤7Ω ± 1Ω	
LoΩ		
Range	6.00Ω / 60.0Ω	
Resolution	0.01Ω / 0.1Ω	
Accuracy	± 2% of reading + 3 digits	
GENERAL SPECIFICATIONS		
Auto power off	Approx. 10 minutes	
Approvals	EN 61010 600V CAT IV / 1000V CAT III	
Electromagnetic compatibility	EN 61326-1	
Dimensions / weight	206(L) x 90(W) x 51(H) mm / Approx. 510g (with holster & battery)	

Includes:

- IN2203 Insulation tester
- TC57 Carry case
- TL47 Unfused test lead set
- User manual

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