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ELECTRIC SECURITY

Safety when dealing with electric or hybrid vehicles is essential in the truest sense of the word. Before and after maintenance work, electrical tests and measurements (e.g. in accordance with ECE R100) are essential.

INSULATION RESISTANCE TESTER



item number :
MTi 801 (041710_1)

DESCRIPTION

- Portable, convenient and battery-powered multimeter for quick and easy voltage and resistance measurement, continuity test and insulation measurement
 - The growing market for electric and hybrid vehicles means that even the most accurate measurements of resistance values are becoming increasingly important. The MTi 801 offers the perfect solution
 - Accurate and reliable measurements
 - Durable design (impact protection up to 3 m drop height)
 - The bar graph shows the measurement result in the usual analogue look
 - DMM functions (AC/DC, resistance and continuity)
 - Safety: CAT III 1000 V and CAT IV 600 V
 - Measurement option; Range; Resolution; Accuracy*+; Overload protection
- | | | | |
|-----------------|-----------|-----------------------------|-----------|
| DC voltage (AC) | 400.0 mV; | 0.1 mV; $\pm(1.0\% + 8)$; | 1000 Vrms |
| | 4.000 mV; | 0.001 V; $\pm(1.0\% + 8)$; | 1000 Vrms |
| | 40.00 V; | 0.01 V; $\pm(1.0\% + 8)$; | 1000 Vrms |
| | 400.0 V; | 0.1 V; $\pm(1.0\% + 8)$; | 1000 Vrms |
| | 1000 V; | 1 V; $\pm(1.0\% + 8)$; | 1000 Vrms |
- Input impedance (nominal) 10 M Ω , < 100 pF
Reaction mean effective value
- Measurement option; Range; Resolution; Accuracy*+; Overload protection
- | | | | |
|-----------------|-----------|------------------------------|-----------|
| DC voltage (DC) | 400.0 mV; | 0.1 mV; $\pm(0.8\% + 10)$; | 1000 Vrms |
| | 4.000 mV; | 0.001 V; $\pm(0.8\% + 10)$; | 1000 Vrms |
| | 40.00 V; | 0.01 V; $\pm(0.8\% + 10)$; | 1000 Vrms |

400.0 V; 0.1 V; $\pm(0.8\% + 10)$; 1000 Vrms
1000 V; 1 V; $\pm(0.8\% + 10)$; 1000 Vrms

input impedance (nominal) 10 M Ω , < 100 pF

- Measurement option; Range; Resolution; Accuracy*; Overload protection
Resistance; 400.0 Ω ; 0.1 Ω ; $\pm(1.0\% + 5)$; 400 Vrms
4.000 K Ω ; 0.001 K Ω ; $\pm(1.0\% + 5)$; 400 Vrms
40.00 K Ω ; 0.01 K Ω ; $\pm(1.0\% + 5)$; 400 Vrms
400.0 K Ω ; 0.1 K Ω ; $\pm(1.0\% + 5)$; 400 Vrms
4.000 M Ω ; 0.001 M Ω ; $\pm(1.0\% + 5)$; 400 Vrms
40.00 M Ω ; 0.01 M Ω ; $\pm(1.5\% + 10)$; 400 Vrms

input impedance (nominal) 10 M Ω , < 100 pF

- Measurement option; Output voltage; Display range; Resolution; Test
current; Accuracy*
Insulation test

100 V;	0.01 ~ 20.00 M Ω ;	0.01 M Ω ;	0.5 mA @	
100 K Ω ; (3% + 5)	20 ~ 100 M Ω ;	0.1 M Ω ;	0.5 mA @	
100 K Ω ; (3% + 5)	250 V;	0.01 ~ 20.00 M Ω ;	0.01 M Ω ;	0.5 mA @
250 K Ω ; (3% + 5)	250 V;	20.0 ~ 200.00 M Ω ;	0.01 M Ω ;	0.5 mA @
250 K Ω ; (3% + 5)	500 V;	0.01 ~ 20.00 M Ω ;	0.01 M Ω ;	0.5 mA @
500 K Ω ; (3% + 5)	500 V;	20.0 ~ 200.0 M Ω ;	0.1 M Ω ;	0.5 mA @
500 K Ω ; (3% + 5)	500 V;	200 ~ 500 M Ω ;	1 M Ω ;	0.5 mA @
500 K Ω ; (5% + 5)	1000 V;	0.01 ~ 20.00 M Ω ;	0.01 M Ω ;	0.5 mA @ 1
M Ω ; (3% + 5)	1000 V;	20.0 ~ 200.0 M Ω ;	0.1 M Ω ;	0.5 mA @ 1
M Ω ; (3% + 5)	1000 V;	200 ~ 2000 M Ω ;	1 M Ω ;	0.5 mA @
500 K Ω ; (5% + 5)				

Short-circuit test current (nominal) 0.5 mA

Automatic discharge/discharge time < 1 sec. for C \leq 1 μ F

Minimum of measurement 0.1 M Ω

- Measurement option; Overload protection; Open circuit voltage: Responding value;
Continuity test 400 Vrms; < 0.44 V; < 40 Ω

* The accuracy is specified with \pm (% of the measured value + counter lowest digit) at 23 $^{\circ}$ C \pm 5 $^{\circ}$ C, with a relative humidity below 80%. 50 Hz ~ 60 Hz

- Dimensions: 178 x 89 x 48 mm
- Weight. 425 g
- Battery: 6x AAA batteries (NEDA 24 A or IEC LR03)

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