

## MEGOHMMETER 1000V CAT. III & 600V CAT. IV

Reference : OE 4002



<b>Item name</b>	MEGOHMMETER 1000V CAT. III & 600V CAT. IV
<b>Bar code</b>	3700461471568
<b>Introduction</b>	<p>Specially designed for hybrid and electric vehicles, this device can measure the isolation of electrical equipment, as well as a voltage up to 1000V.</p> <p>It allows the measurement of DC and AC voltage, DC and AC current, temperature, resistance, capacity, isolation and frequency.</p>
<b>Text</b>	<p>Suitable for the "low voltage" requirements of authorisations: BCL, B2VL, B2TL, B2XL</p> <p>...</p>
<b>Product highlight</b>	Suitable for hybrid and electric vehicles
<b>Specifications</b>	<p>Specifications:</p> <p>Complies with IEC/EN 61010-1 1000V CAT III, 600V CAT IV.</p> <p>1000V DC Voltage, 750V AC Voltage (TRMS).</p> <ul style="list-style-type: none"><li>- DC voltage: 600mV-6V-60V-600V-1000V</li><li>- AC voltage 600mV-6V-60V-600V-750V</li><li>- DC current: 60mA-400mA</li><li>- AC current: 60mA-400mA</li><li>- 6600 counts (except for capacity, temperature and insulation measurement)</li><li>- when the input terminals are V and COM, the protective voltage overload is up to 250V AC (TRMS).</li><li>- when the input terminals are mA and COM, the protection current is 0.4A.</li><li>- when the input terminals are Hi and Lo, the protective voltage overload is 600V.</li><li>- display of minimum average values</li></ul>

- 4 AA batteries (NEDA 15A or IEC LR6) for 1000 hours of battery life for the insulation test.
  - the multimeter can perform at least 1000 insulation tests with new alkaline batteries at room temperature.
- These are standard tests of 1000V in 1M $\Omega$  with a duty cycle of 5 seconds on and 25 seconds off.
- resistance: 600ohm-6kohm-60kohm-600kohm-6Mohm-60Mohm
  - insulation measurement range: 0.01M $\Omega$  to 2G $\Omega$ .
  - isolation test voltages: 50V, 100V, 250V, 500V, 1000V.
  - insulation original voltage: +20%, -0%.
  - insulation short circuit test current: 1.5mA nominal.
  - automatic discharge of insulation: Discharge time <1 second for C = 1 $\mu$ F or lower.
  - detection of the live isolation circuit: block the test if the voltage at the terminal is >20V before starting the test.
  - insulation resistance: 50V (5-50Mohm) - 100V (0-100Mohm) - 250V (0-250Mohm) - 500V (0-500Mohm) - 1000V (0-2Gohm)
  - calculation of dielectric absorption ratio (DAR) and automatic polarization index (PI);
  - maximum capacitive load of insulation: operates up to a load of 1 $\mu$ F.
  - storage temperature: -40°C to 60°C.
  - operating temperature: 0°C to 40°C.
  - storage altitude: 12000m
  - operating altitude: 2000m 1000V CAT III, 3000m 1000V CAT II
  - temperature: -30 to 1300°C
  - temperature coefficient: 0.05 (specified accuracy) per °C for temperatures <18°C or >28°C.
  - relative humidity: 40%~75%.
  - dimensions: 205(L) 102(W) 58(H)mm.
  - weight: about 390g.
  - electrical safety categories: CAT III 1000V, this device can be used in a category 3 medium (shown in the table on the left) at a maximum voltage of 1000V, and in a category 4 medium at a maximum voltage of 600V.

## Contents

### Contents:

- 1x Megohmmeter
- 1x pair of measuring cables
- 1x pair of crocodile clips
- 1x MS 3204
- 1x temperature probe (Thermocouple type K)
- 1x transport house
- 1x transport strap (shoulder strap)
- 4x LR6 batteries

<b>Warranty period</b>	2 years
<b>Voltage</b>	1000V
<b>More</b>	Powered by battery
<b>Cable length</b>	1.20 m
<b>Length (mm)</b>	205.00 mm

**Width** 102.00 mm

**Height** 58.00 mm

**Tariff code** Tariff Normal (TN)

**Warranty Procedure** DIAGNOSTIC

**Customer benefit** This isolation controller complies with the standard and quality expectations of CESVI France.



TN

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