

**NEW**

# 1000V Digital Handheld Megohmmeters

## Quality Advantages

- Selectable test voltages 250, 500 and 1000V (model 6528)
- Selectable test voltages 50, 100, 250, 500 and 1000V (model 6529)
- Basic DMM functions; Volts, Continuity, Resistance
- DAR and PI ratio test functions (model 6529)
- Dual line display to view the insulation value and real-time test voltage simultaneously in an easy-to-read format
- DMR mode - relative resistance comparison to a reference value
- 2-color backlighting easily shows alarm conditions
- Shockproof covering for excellent handling
- Adjustable supports for improved viewing when used on a bench or other flat surface
- Automatic power-off function to optimize the battery life
- Programmable alarm thresholds

## MODELS 6528 & 6529



**TRUE MegOhmmeter®**

*Our products are backed by over 130 years of experience in test and measurement equipment, and encompass the latest international standards for quality and safety.*

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INSTRUMENTS  
CHAUVIN ARNOUX GROUP

# MEGOHMMETERS

## 1000V DIGITAL & MULTI-FUNCTION HANDHELD

These two new 1kV class Megohmmeters are True Megohmmeters® in compliance with IEC 61010 and designed with features and functions for use in the field: lightweight, compact, rugged and easy to handle, even when wearing gloves. Its construction and interface are intended to simplify its use. They function as both an insulation tester and a basic multimeter. An intuitive pass/fail indication offering a blue/red backlight makes it very easy to identify defective conditions. A relative measurement function provides the capability to compare measurements to a known reference quickly recognizing potential problems. Multimeter functions include AC/DC voltage, resistance and continuity.



## SCREEN DISPLAYS

### Megohmmeter and Resistance Modes

Insulation Test Voltage and Resistance Measurement



Resistance Measurement



### Megohmmeter Ratio Modes

DAR and PI measurements are selected by successive presses of the SET-UP key until PI or DAR appear in the upper display

DAR Test Time Measurement  
Default measurements are at 30 seconds and 1 minute



PI Test Time Measurement  
Default measurements are at 1 minute and 10 minutes



### Continuity Mode

Continuity Measurement and Indicates Pass Condition



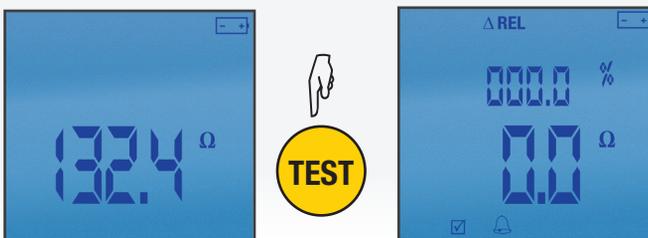
Continuity Measurement and test current Red Backlight and X indicates Alarm (Fail) Condition



## DIFFERENTIAL MODE RESISTANCE (DMR)

The DMR mode (Differential Mode Resistance), or relative mode, is typically used for the purpose of checking that all resistances of a given installation or run (batch) are within the allowed tolerance which is set by a user programmable percentage.

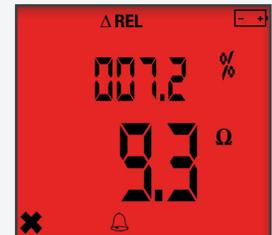
- Start by setting the threshold %
- Make the first measurement and press the **TEST** button to record it. This will be the reference measurement.



- At each new measurement, the instrument indicates the difference between the new reading and the reference measurement, along with the difference in %.



If the difference is below the programmed threshold, the  symbol is displayed.



If the difference exceeds the programmed threshold, the **X** symbol is displayed and the backlight turns red.

# MEGOHMMETERS

## 1000V DIGITAL & MULTI-FUNCTION HANDHELD

### SPECIFICATIONS

MODELS	6528	6529
<b>AC/DC VOLTAGE MEASUREMENT</b>		
Range	700 V <sub>AC</sub> , 700V <sub>AC+DC</sub>	
Accuracy	$\pm(1\%R + 1ct)$ $\pm(1.2\%R + 1ct)$	
Resolution	1V	
Frequency Range	DC & 30 to 440 Hz	
Input Impedance	25M $\Omega$	
<b>INSULATION MEASUREMENT</b>		
Test Voltage/Resistance Range		
50V	–	0.010M $\Omega$ to 420.0M $\Omega$
100V	–	0.020M $\Omega$ to 420.0M $\Omega$
250V	0.050M $\Omega$ to 4200M $\Omega$	0.050M $\Omega$ to 4200M $\Omega$
500V	0.100M $\Omega$ to 4200M $\Omega$	0.100M $\Omega$ to 4200M $\Omega$
1000V	0.20M $\Omega$ to 11.00G $\Omega$	0.20M $\Omega$ to 11.00G $\Omega$
Measurement Accuracy	$\pm(1.5\%R + 10ct)$ $\pm(4\%R + 10ct)$ $\pm(10\%R + 10ct)$ (1000V range)	
40 $\Omega$ /40M $\Omega$ /400M $\Omega$ 4.2G $\Omega$ 11G $\Omega$		
<b>CONTINUITY MEASUREMENT</b>		
Range	0 to 40 $\Omega$ (200mA test current $\leq 2\Omega$ )	
Accuracy	1.2%R + 3ct	
Resolution Max	0.01 $\Omega$	
Leads Compensation	Up to 5 $\Omega$	
Audible Signal	Selectable $\leq 1$ or 2 $\Omega$	
<b>RESISTANCE MEASUREMENT</b>		
Range	0 to 420k $\Omega$	
Accuracy	$\pm(1.2 R + 3ct)$	
Resolution Max	0.1 $\Omega$	
DMR Mode	Compares successive measurements to a reference value with alarm indication and red backlit display if deviation changes by the programmed %. The difference beyond the new reading and the reference measurement, along with the % deviation are displayed.	
<b>GENERAL</b>		
Time Test	1 second to 39.59 mins selectable	
Display	LCD with backlight	
Power Supply	(6) AA Alkaline batteries (NEDA 15A or IEC LR6)	
Battery Life (5s ON, 25s OFF)	>2000 measurement in M $\Omega$ , >300h in V AC/DC, >6000 measurement in Continuity Test	
Dimensions	8.54 x 3.54 x 2.44" (217 x 90 x 62mm)	
Weight	1.68 lbs (760g)	
Operating Temperature	14° to 122°F (-10° to +50°C), 90% RH	
<b>SAFETY</b>		
Safety Rating	IEC / EN 61010-1, 600V CAT IV, CE mark 	
	IP 40 (with leads connected)	



### PRODUCT INCLUDES

A set of (2) 5 ft color-coded silicone leads, (2) color-coded alligator clips and (2) color-coded test probes (red/black) (Rated 1000V CAT IV, UL V2), soft carrying case, (6) 1.5V AA batteries and a user manual.



### ACCESSORIES

Catalog #2138.54 — Continuity probe



### REPLACEMENT PARTS

Catalog #2117.73 – Replacement pouch

Catalog #2971.04 – Set of (2) Fuses FF, 200mA, 1000V, 10kA, 6x32mm

Catalog #5000.94 – Set of (2) 5 ft color-coded (red/black) silicone leads with 4mm straight/right angle banana plugs (Rated 1000V CAT IV, UL)

Catalog #5000.97 – Black Test Probe (1000V CAT IV, 15A, UL V2)

Catalog #5000.98 – Red Test Probe (1000V CAT IV, 15A, UL V2)

Catalog #5000.99 – Safety Alligator Clip – Black (1000V CAT IV, 15A, UL V2)

Catalog #5100.00 – Safety Alligator Clip – Red (1000V CAT IV, 15A, UL V2)

CATALOG NO.	DESCRIPTION
2126.54	Megohmmeter Model 6528 (Digital, 250V, 500V, 1kV, 420k-Ohm, V, Continuity, Alarm & Timer)
2126.55	Megohmmeter Model 6529 (Digital, 50V, 100V, 250V, 500V, 1kV, 420k-Ohm, Continuity, Alarm, Timer & PI/DAR)

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