

megohmmeter-ohmmeter

RL 2200



The RL2200 is particularly suited to maintenance, verification and reception of telephone lines, and more generally of all low voltage cables. Its unique dual display offers both digital readings, for high accuracy measurements, and analogue readings to «feel» measurements tendency and monitor threshold limits.

The RL2200 measures loop resistance, insulation resistance, AC and DC voltages. Threshold limits can be set on resistance and insulation measurements.

France Télécom approved

- Dual analogue/digital display
- Multi-purpose
- Quick cable loading feature
- Auto-discharge feature
- Rugged and designed for field use

functions

Insulation resistance measurements

Ranges and measurement voltages:
- from 0.01 M Ω to 1 000 M Ω under 50 V

- from 0.1 M Ω to 10 000 M Ω under 500 V (500 V constant voltage for insulation > 5 M Ω).
- measuring current: < 1 mA.
Insulation threshold indication (beep) above adjustable limit.

Resistance range under 50 V

Analogue range		Digital range			Accuracy	
	Range	Measured resistance	Resolution		Analogue	Digital (1)
0.03 M Ω to 3 000 M Ω	0.00 M Ω to 99.50 M Ω	0.00 to 10.00 M Ω	0.01 M Ω	± 1 segment	± 1 segment	5% + 0.01 M Ω
		10.00 to 30.00 M Ω	0.05 M Ω			
	100.0 M Ω to 1 000.0 M Ω	30.00 to 50.00 M Ω	0.10 M Ω			10%
		50.00 to 99.50 M Ω	0.50 M Ω			
		100.0 to 200.0 M Ω	1.0 M Ω			
		200.0 to 400.0 M Ω	5.0 M Ω			
		400.0 to 700.0 M Ω	10.0 M Ω			
		700.0 to 1 000.0 M Ω	20.0 M Ω			

(1) Accuracy is given 1 year in \pm (% of reading + n) at 23 \pm 1°C

Resistance range under 500 V

Analogue range		Digital range		Accuracy	
	Range	Measured resistance	Resolution	Analogue	Digital (1)
0.3 M to 30 000 M	0.0 M	0.0 to 100.0 M	0.1 M	± 1 segment	5% + 0.1 M
	to	100.0 to 300.0 M	0.5 M		
	995.0 M	300.0 to 500.0 M	1.0 M		
		500.0 to 995.0 M	5.0 M		
	1000 M	1 000 to 2 000 M	10 M		10%
	to	2 000 to 4 000 M	50 M		
	10 000 M	4 000 to 7 000 M	100 M		
		7 000 to 10 000 M	200 M		

(1) Over 1 year in \pm (% of reading + n) at 23 \pm 1°C

Resistance measurements

- Range : from 0 to 10 000
- Measuring current: < 1mA.

Continuity threshold indication (beep)
below adjustable limit.

Analogue range		Digital range		Accuracy (1)	
	Range	Measured resistance	Resolution	Analogue	Digital
0.3 to 30 000	0.0	0.0 to 100.0	0.1	± 1 segment	0.5% + 0.2
	to	100.0 to 500.0	0.2		
	999.5	500.0 to 999.5	0.5		
	1 000	1 000 to 2 000	1		
	to	2 000 to 3 000	2		
	10 000	3 000 to 5 000	5		
		5 000 to 10 000	10		

(1) At 23 \pm 1°C over one year and in \pm (% of reading + n) on digital display.

general specifications

Dual display

- analogue display: 67 segments bar-graph on 5 decades logarithmic scale.
- digital display: 4 digits LCD.
- Adjustment of value to adapt to peculiar measurement situation.

Safety.....

Using insulation measurement function under 50 V and 500 V, measuring voltage is applied on line only while measuring key is pressed. When the key is released, the cable is automatically unloaded within 1sec. Overload protection up to 380 V RMS on all ranges (90 V RMS on resistance ranges).

Quick load

Measurement settling time < 2 sec. for line capacitance < 1 μ F.

Threshold limits

Set up of limits on resistance and insulation ranges with audible warning (beep).

Presentation.....

Plastic housing.
Dimensions : 195 x 100 x 45 mm.
Mass: 0.500kg.
Protection: IP54.
Connection: 2 safety 4mm plugs.

Power supply

4 x R6 or LR6 1.5 V type batteries.
Autonomy: 4500 measurements of 5 sec. each under 500 V with resistance 0.5 M .
Auto switch-off function (after 30mn).

Environment

Operating range limits: -10 to +50°C, 20 to 80% relative humidity without condensation.
Storage and shipping range from -30°C to + 50°C.

Included as standard

- Carrying case for «hands free» use
- Measuring leads and «crocodile» type clamps.

ordering instructions

Analogue/digital Megohmmeter-ohmmeter RL 2200

Specifications subject to modification without prior notice

DC voltage measurements

3 digits digital display.
Range 0 to 100 V DC, resolution 0.1 V, accuracy \pm (1%rdgs. + 0.5 V).
Range 100 to 500 V DC, resolution 1 V, accuracy \pm (1%rdgs. + 1 V).
Input impedance: 200 K .

AC voltage measurements

Range 0 to 100 V AC, resolution 0.1 V, accuracy \pm (1%rdgs. + 0.5 V).
Range 100 to 400 V AC, resolution 1 V, accuracy \pm (1%rdgs. + 1 V).
Input impedance: 200 K .
Average value translated to RMS without DC component.
Band width: 40 to 400 Hz (higher frequencies can be measured with lower accuracy).



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