



GROUNDTEST M71

Portable meter for 2-wire and 3-wire Earth Resistance measurements Page 1 of 1

1. ELECTRICAL SPECIFICATIONS

Accuracy in indicated as \pm (% of reading + number of digits) at $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$; $<60\%$ HR

Earth Resistance 3-wire and 2-wire systems

Range (Ω)	Resolution (Ω)	Accuracy	
		Disturbance $\leq 3V_{rms}$	$3V_{rms} < \text{Disturbances} < 6V_{rms}$
0.01 \div 19.99	0.01	$\pm(2.0\%rdg + dgt)$	$\pm(4.0\%rdg + 10dgt)$
20.0 \div 199.9	0.1		
200 \div 1999	1		
2.00k \div 19.99k	0.01k	$\pm(3.0\%rdg + 3dgt)$	$\pm(6.0\%rdg + 10dgt)$
20.0k \div 49.9k	0.1k		

Test current: $\leq 12\text{mAAC}$
Open circuit voltage: $\leq 25\text{V ACTRMS}$
Test frequency: $110\text{Hz} \pm 1\text{Hz}$

Noise Voltages

Range (V)	Resolution (V)	Accuracy
0.0 \div 99.9	0.1	$\pm(2.0\% rdg + 2dgt)$
100 \div 299	1	

2. GENERAL SPECIFICATIONS

DISPLAY:

Features: Custom LCD
Visible area: 53x53 mm

POWER SUPPLY:

Batteries: 4x1.5V battery type LR6-AA-AM3-MN 1500
Low batteries indications: "🔋" symbol at display
Batteries life: about 500 test
AutoPowerOFF: after 5 min from last action

MECHANICAL FEATURES:

Dimensions: 240(L) x 100(W) x 45(H) mm
Weight (included batteries): about 0.6kg

WORKING ENVIRONMENTAL CONDITIONS:

Reference temperature: $23^{\circ}\text{C} \pm 5^{\circ}\text{C}$
Working temperature: $0^{\circ} \div 40^{\circ}\text{C}$
Allowed relative humidity: $<80\%$ HR
Storage temperature: $-10 \div 60^{\circ}\text{C}$
Storage humidity: $<80\%$ HR

GENERAL REFERENCE STANDARDS:

Safety of measuring instruments: IEC / EN61010-1, IEC / EN61557-1, IEC / EN61557-5
Technical documentation: IEC / EN61187
Safety standard accessories: IEC / EN61010-031, IEC / EN61010-2-032
Insulation: double insulation
Pollution degree: 2
Overvoltage category: CAT III 265V to ground, max 415V between inputs
Max altitude: 2000m
EMC: EN61326-1

This instrument complies with the requirements of the European Low Voltage Directives 2006/23/EEC (LVD) and EMC 2005/108/EEC