

GEO416

Rel. 1.01 of 16/10/07

Professional meter for Earth Resistance measurements

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1. ELECTRICAL SPECIFICATIONS (*)

Accuracy in indicated as \pm (% of reading + number of digits) at 23°C \pm 5°C; <60%HR

Earth Resistance 3-wire and 2-wire systems		
Range (Ω)	Resolution (Ω)	Accuracy
0.01 ÷ 19.99	0.01	
20.0 ÷ 199.9	0.1	
200 ÷ 1999	1	\pm (2.5%rdg + 2dgt)
2.00 ÷ 19.99k	0.01k	
20.0 ÷ 49.9k	0.1k	

 Test current:
 \leq 12mAAC

 Open circuit voltage:
 \leq 25V ACTRMS

 Test frequency:
 77.5Hz ± 1Hz

 Rprobes:
 \leq 50kΩ

Earth Resistivity ρ with 4-wire method			
Range (Ωm)	Resolution (Ωm)	Accuracy	
0.06 ÷ 19.99	0.01	±(2.5%rdg + 2dgt)	
20.0 ÷ 199.9	0.1		
200 ÷ 1999	1		
2.00 ÷ 19.99k	0.01k		
20.0 ÷ 199.9k	0.1k		
0.20 ÷ 3.15M	0.01M		

Test current: $\leq 12 \text{mAAC}$ Open circuit voltage: $\leq 25 \text{V ACTRMS}$ Test frequency: $77.5 \text{Hz} \pm 1 \text{Hz}$ Probe distance range: $1 \div 10 \text{m}$ Rprobes: $\leq 50 \text{k}\Omega$

Noise Voltages		
Range (V)	Resolution (V)	Accuracy
460	1	±(2.0%rdg + 2dgt)

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2. GENERAL SPECIFICATIONS

DISPLAY, MEMORY, SERIAL INTERFACE:

Features: Custom LCD with backlight

Visible area: 73x65 mm

Memory: 999 locations
Serial interface: RS-232 /USB

POWER SUPPLY:

Batteries: 6 batteries 1.5V type LR6-AA-AM3-MN 1500

Low batteries indications: "

"symbol at display"

Batteries life: about 500 test

MECHANICAL FEATURES:

Dimensions: 222 (W) x 162(L) x 57(D) mm

Weight (included batteries): about 1kg

WORKING ENVIRONMENTAL CONDITIONS:

GENERAL REFERENCE STANDARDS:

Safety of measuring instruments: IEC / EN61010-1 Safety of accessories: IEC / EN61010-031

Product type standard: IEC / EN61557-1, IEC / EN61557-5

Insulation: double insulation

Pollution degree: 2

Overvoltage category: CAT III 240V to ground, 415V between inputs

Max altitude: 2000m

EMC: EN61326-1(1998) + A1(1999)

This instrument complies with the requirements of the European Low Voltage Directives 2006/95/CEE (LVD) and EMC 2004/108/CE

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