

DY4300 | DY4300A | DY4300B | DY4300C

4-TERMINAL EARTH RESISTANCE TESTER AND SOIL RESISTIVITY TESTER

- 4 pole earth resistance measurement up to 209.9k ohms with resolution 0.001ohm
- Soil resistivity measurement 0 to 209.9kΩm
- Test current 80mA
- Double clamps provides quick and convenient measurement (DY4300C only)
- Advance filtering method based on FFT(fast fourier transform) reduces noise interference
- Rich test results displayed include resistance of earth spikes, frequency of test current, detected voltage and frequency of interference, residual resistance Rk, etc.
- Auto/manual frequencies optional(94/105/111/128Hz)
- Compensation for residual resistance Rk
- Data memory 1000sets
- Brand new designed rugged panel layout
- Conforms to CATIV 150V, CATIII 300V



GENERAL INFORMATION

Power Source	AA1.5V x 8
Dimension	190 x 155 x 75 mm
Weight	approx. 900g

SPECIFICATION

	Range	DY4300	DY4300A	DY4300B	DY4300C			
Earth Resistance	0.05~2.099Ω	±(3%rdg±5dgt)	0.01Ω	0.01Ω	±(3%rdg±0.03Ω)	0.001Ω	0.01Ω	
	0.05~20.99Ω		0.1Ω	0.1Ω	0.01Ω	0.1Ω		
	0.3~209.9Ω		1Ω	1Ω	0.1Ω	±(3%rdg±5dgt)	1Ω	
	3~2099Ω		10Ω	10Ω	1Ω	10Ω		
	0.03k~20.99kΩ		100Ω	100Ω	10Ω	100Ω		
	0.03k~209.9kΩ		N/A	N/A	100Ω	N/A		
Auxiliary earth resistance Rh, Rs	8% of Re+Rh+Rs							
Soil Resistivity $\rho = 2 * n * a * Rg$ (*2)	0.2~395.6Ωm	0.1Ωm~1Ωm autoranging	0.1Ωm~1Ωm autoranging	0.1Ωm~1Ωm autoranging	0.1Ωm~1Ωm autoranging	0.1Ωm~1Ωm autoranging		
	0.2~3956Ωm							
	20~39.56kΩm							
	0.2k~395.6kΩm							
	2.0k~1999kΩm						N/A	N/A
Series interference voltage Ust (A.C only) (*3)	0~30Vrms	N/A	±2%rdg±2dgt (50/60Hz) ±3%rdg±2dgt (40/500Hz)	0.1V	N/A	±2%rdg±2dgt (50/60Hz) ±3%rdg±2dgt (40/500Hz)	0.1V	
	0~50.9Vrms	N/A	N/A	N/A	±2%rdg±2dgt (50/60Hz) ±3%rdg±2dgt (40/500Hz)	0.1V	N/A	
Frequency	400Hz~500Hz	N/A	±1%rdg±2dgt	0.5Hz	±1%rdg±2dgt	0.5Hz	±1%rdg±2dgt	0.5Hz
Double clamp-on measurement for earth resistance	0.05~140Ω	N/A	N/A	N/A	N/A	±(3%rdg±5dgt)		
Measuring Current Im	maximum 80mA							
Measuring Voltage Um		10Vrms 125Hz	maximum 10Vrms 94Hz, 105Hz, 111Hz, 128Hz					
Memory capacity	1000							
Overload Protection	between E-S(P) and between E-H® terminals AC280V / 10 sec.							
Withstand voltage	between the electrical circuit and enclosure AC3540V(50/60Hz) / 5 sec.							
LCD	Dot-matrix 192×64 monochrome							
Safety Category	IEC 61010-1 CAT.III 300V, CAT.IV 150V Pollution degree 2, IEC 61010-031, IEC 61557-1, 5, IEC 61326-1 (EMC), IEC 60529 (IP54)							
Power	AA 1.5V * 8							
Dimension	190*155*75mm							
Weight	900g							

(1)Auxiliary earth resistance is 100Ω with Rk correction.
 (2)Depending on the measured Rg, interval [a] between auxiliary earth spikes is 1.0~30.0m.
 (3)This instrument is NOT designed to measure line voltages on commercial powers