S480 4 Terminal Earth Tester



FEATURES

High resolution of 1m«, ideal for ground systems
Strong anti-interference capability
Versatile test modes and applications
4 terminal method
Accurate results
Testing range : 0.000« to 200.0k«
Automatic range selection
Resolution : 0.001«
Soil resistivity measurement



SPECIFICATIONS

Functions	Grounding resistance, soil resistivity test; grounding voltage, AC voltage test
Power	11.1V DC, 2600mAh, rechargeable Li-battery
Measure Mode	Grounding Resistance (4 terminal, 3 terminal and 2 terminal), soil resistivity
Measuring Method	Earth Resistance: pole-changing method, rated current: 20mA Max
	Soil Resistivity: 4-pole measurement (Wenner method)
	Earth Voltage Test: average rectification (between P(S)-ES)
Measurable Range	2\3\4 terminal method for measuring ground resistance (R): 0.000« to 200.0k«
	Soil resistivity (Ã): 0.000«m to 9999k«m
	Grounding voltage:AC 0.001V to 600.0V (50Hz/60Hz)
Max. Resolution	2/3/4 terminal method for measuring ground resistance (R): 0.001«
	Soil resistivity (Ã): 0.01«m
	Grounding voltage: 0.001V

Accuracy (26℃ ± 3℃, Below 70%RH)	2/3/4 terminal method for measuring ground resistance (R):1.0.000« to 10.00k« : ±2%rdg±5dgt 2.10.0K to 100.0k« : ±3%rdg±5dgt 3.100.0K to 200.0k« : ±3.5%rdg±5dgt Note: if the interference is more than 5v, then the accuracy decreases ≤± 5%-RDG ±5dgt
	Soil resistivity (p): depends on R's accuracy (p=2ÃaR (a: 1m to 100m); Ã=3.14)
	Grounding voltage:±2%rdg±5dgt(50Hz/60Hz)
Measured Voltage Waveform	Sine wave
Measuring Frequency	412Hz, 825Hz, 1280Hz (automatic selection)
Short Circuit Current	AC 10mA max
Open Circuit Voltage	AC 75V max
Electrode Spacing	1m to 100m
Measurement Range	Grounding resistance: 0.000« to 200k«, The measurement range will be automatically adjusted based on the resistance
	Soil resistivity: 0.00«m to 9999k«m, The measurement range will be automatically adjusted based on the resistance
Test Indication	During testing, a LED light will flash and there will be a bar that indicates the progress. There is also a countdown display
Dimensions	Base station:LWH 320mm×275mm× 145mm
	Packaging:LWH 400mm*245mm*335mm
Standard Test Leads	Total 4 pcs:red 15m， black 15m， yellow 10m， green 10m, each 1 pc
2T Method Test Leads	Total 2 pcs:red 1.6m, black 1.6m, each 1 pc
Auxiliary Grounding Rod	4 pcs:approx. Ç10mm×200mm
Sampling Rate	Ground voltage:approx. 2 samples/sec Ground resistance: 1 sample at 7seconds interval Soil resistivity: 1 sample at 7 seconds interval
Number of Measurements	5000 times and above (for short circuit test, after each measurement, it will stop for 30 seconds before the next measurement)
Voltage of Conductor	Below AC 600V
Data Hold	Press HOLD to hold and save the data
Save Data	Up to 300 sets of data can be saved, ìHOLDîindicates data is saved as well. A ìFULLî symbol indicates that the storage is full
Interference Detection	Automatic recognition of interference signal. ìNOISEî symbol will be displayed when interference voltage exceeds 5V
Alarm Warning	When the measured value exceeds the pre-set value, an alarm ìbeepî will be emitted
Automatic Shutdown	The instrument will shut down automatically after standing by for 15 minutes
Working Current	Standby: 25mA max (backlight off) Backlight: 25mA max (only backlight consumption) Measuring: 150mA max (backlight off)

Weight	Host: approx. 2.66kg (including battery)
	Total: approx. 6.88kg (including package)
Working Conditions	-10℃~40℃; below 80% Rh
Storage Condition	-20℃~60℃; 70% Rh below
Overload Protection Threshold	When measuring grounding resistance:C(H)-E、P(S)-ES between each port AC 600V 20M« above (between circuit and housing 500V)







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