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Arentel

CEI 64.8

SMAR EC®

MI 2124

Earth resistance measurement

Earth

- 2-pole, 3-pole, 4-pole earth resistance measurements.
- Selective earth resistance measurement with clamp (no influence from parallel earths; no opening of rusty junctions is needed).
- Two clamp earth measurement for guick testing in urban areas (no opening of rusty junctions).

Specific earth resistance (ρ) measurement.

- True RMS current measurement for determining problems on earth systems and conductors.
- Outstanding features even in presence of mains interference and high probe resistance.
- Warnings indication for out of limits results and incorrect test conditions.
- 1000 memory locations and PC Software for print-out of measurement protocol.

Example of recommended measuring method

- Socket for external battery charger.
- Auto power-off.



Technical Specification

Earth Resistance (four-lead	method)				
Display range		0÷1	9.99 kΩ		
Resolution		0.01	; 0.1; 1; 10 Ω		
Basic accuracy		±(2 %	% + 3 D) (0÷.	2 kΩ)	
Test voltage		<40	V / 125 Hz / sin	e wave	
Short-circuit test current		<20	mА		
High noise rejection		yes			
Aut. potential and current prol	be res. test	yes			
Earth Resistance (four-lead	method + clar	np)		A 1018	
Display range		0÷1	.99 kΩ		
Other characteristics see und	er four-lead m	ethoa	1		
Earth Resistance (two test o	:lamps)		Α	1018, A 1019	
Display range	0÷19.99 Ω		20.0÷100.09	Σ	
Basic accuracy	±(10 % + 2 L))	±(20 %)		
Specific Earth Resistance					
Display range	$0 \div 1999 \ k\Omega m \ (k\Omega ft)$				
Calculation	$ ho$ = 2 π aRe				
Distance between test rods	1 ÷30 m (1 ÷90 ft)				
Other characteristics see und	er four-lead m	ethoa	1		
Current (True RMS)			Α	1018, A 1019	
Measurement principle	current clamp 1 A / 1 mA				
Display range	0÷200 A				
Resolution	0.1; 1 mA; 0.	0.1; 1 mA; 0.01; 0.1; 1 A			
Basic accuracy	±(5 % + 5 D)	±(5 % + 5 D) (0.5 mA ÷ 200 A)			
Nominal frequency	50/60 Hz				

 Soft carrying bag 	Order No. A 1006
 Small soft carrying bag 	Order No. A 1020
- Carrying strap	Order No. A 1007
- Battery charger (230 V and/or 12 V DC)	
with a set of 4 NiCd batteries	Order No. A 1045
 Earth test set - 50 m 	Order No. S 2002
- Test cable 4 x 1 m	Order No. S 2009
 Low range clamp 	Order No. A 1018
- Standard range clamp	Order No. A 1019
- Windows Software "Smart Link" with	
RS 232 interface cable	Order No. A 1050

Order No. MI 2124

MPF(

- Instrument

Standard Set

- Test lead 4.5 m, (black)
- Test lead 4.5 m, (green)
- Test lead 15 m, (red)
- Test lead 20 m, blue)
- Earth test rod, 4 pcs
- Instruction manual
- Declaration of conformity
- Production verification data
- Declaration of waranty



Optional Accessories



🌺 METREL