

CLAMP EARTH TESTER

Model MET-1



GENERAL

This Clamp Earth Tester Model MET-1/MET-2 measures the earth resistance by using two clamp CTs without disconnecting the earthing conductor and without using auxiliary ground rod and can measure only the objective earth resistance without any influence from other conductors.

FEATURES

- Completely different method from the ordinary Earth Testers.
- Just clamping two CTs to the earthing conductor and no need to use auxiliary earth rod.

APPLICATIONS FOR MEASUREMENT

1. Earth resistance for outer case of extra-high voltage equipment.
2. Earth resistance for arrester.
3. Earth resistance for secondary side of the extra-high voltage transformer.
4. Earth resistance for the conductors for equipotential bonding.
5. Static electricity protection equipment & appliance.
6. For single and multi-grounded systems.
7. Leakage current measurement.

SPECIFICATIONS

Measuring function	: Earth Resistance, AC Current (Line & Leakage)
Measuring method	: Dual integration mode, Clamping Two CTs
Display	: LCD, 16 letters/characters×2 lines with contrast adjustor
Safety standard	: Meets the requirements for double insulation to IEC 61010-1 installation CategoryII. 600V phase to earth.
Sampling	: Approx. 2 times/second for AC current
Measuring Time	: Approx. 30 second for earth resistance
Over range indication	: "OVER" on LCD readout both for AC current & earth resistance
Low battery indication	: "B" mark on LCD readout
Auto power off	: The meter is set to power off mode, approx. 5 minutes after the power swith on.
Data hold function	: "DH" mark on LCD readout.
Accuracy	: 23°C ± 5°C, 80%RH max.

Earth Resistance (MET-1)

Range	Resolution	Accuracy
200Ω	0.1 Ω	0~10Ω : ± 0.2 Ω 10~50Ω : ± 1.0 Ω 50~200Ω : ± 5.0 Ω

AC Current

Range	Resolution	Accuracy
200mA	0.1mA	2%rdg±8dgt
2000mA	1mA	
20A	0.01mA	

CT for detection : 340mm
 CT for superposition : 340mm, auto sweep 4KHz~400KHz (MET-1) 4KHz~200KHz(MET-2)
 superposing leve : approx.160mVp(MET-1) approx. 320mVp(MET-2)

Storage temperature : -10°C~60°C<80% RH without condensation
 Operating temperature : 0°C~40°C,<80% RH without condensation
 Circuit voltage : less than 500V
 Withstanding voltage : AC 3700V, 1minute between operation handle and CT core.

Power Supply : AC100V~240V (50/60Hz) with adaptor
 Internal Ni-Cd battery (1.2V×5)

Battery life : 400 times measurement under full charged condition (according to the times of charging and discharging).

Size & weight
 CT for detection : 90.5(W)×165(H)×38(D)mm, approx. 460g
 CT for superposition : 90.5(W)×165(H)×38(D)mm, approx. 440g
 Instrument body : 190(W)×140(H)×42(D)mm, approx. 800g
 Standard accessories : Detection Clamp CT..... 1
 Superposition Clamp CT.... 1
 AC Adaptor 1
 Carrying case..... 1
 Instruction Manual..... 1
 Subsidiary lead wire 1

CLAMP EARTH TESTER

Model MET-2



GENERAL

This Clamp Earth Tester Model MET-1/MET-2 measures the earth resistance by using two clamp CTs without disconnecting the earthing conductor and without using auxiliary ground rod and can measure only the objective earth resistance without any influence from other conductors.

FEATURES

- Completely different method from the ordinary Earth Testers.
- Just clamping two CTs to the earthing conductor and no need to use auxiliary earth rod.

APPLICATIONS FOR MEASUREMENT

1. Earth resistance for outer case of extra-high voltage equipment.
2. Earth resistance for arrester.
3. Earth resistance for secondary side of the extra-high voltage transformer.
4. Earth resistance for the conductors for equipotential bonding.
5. Static electricity protection equipment & appliance.
6. For single and multi-grounded systems.
7. Leakage current measurement.

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Measuring Time	: Approx. 30 second for earth resistance
Over range indication	: "OVER" on LCD readout both for AC current & earth resistance
Low battery indication	: "B" mark on LCD readout
Auto power off	: The meter is set to power off mode, approx. 5 minutes after the power swith on.
Data hold function	: "DH" mark on LCD readout.
Accuracy	: 23°C ± 5°C, 80%RH max.

Earth Resistance (MET-2)

Range	Resolution	Accuracy
10Ω	0.01Ω	0.1~1Ω : ±0.1Ω 1~10Ω : ±0.5Ω
300Ω	0.1 Ω	10~50Ω : ±2.0Ω 50~150Ω : ±5.0Ω 150~200Ω : ±20Ω 200~300Ω : ±30Ω

AC Current

Range	Resolution	Accuracy
200mA	0.1mA	3%rdg±8dgt
2000mA	1mA	2%rdg±8dgt
20A	0.01mA	2%rdg±8dgt

CT for detection : 340mm
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