

CLAMP EARTH TESTER

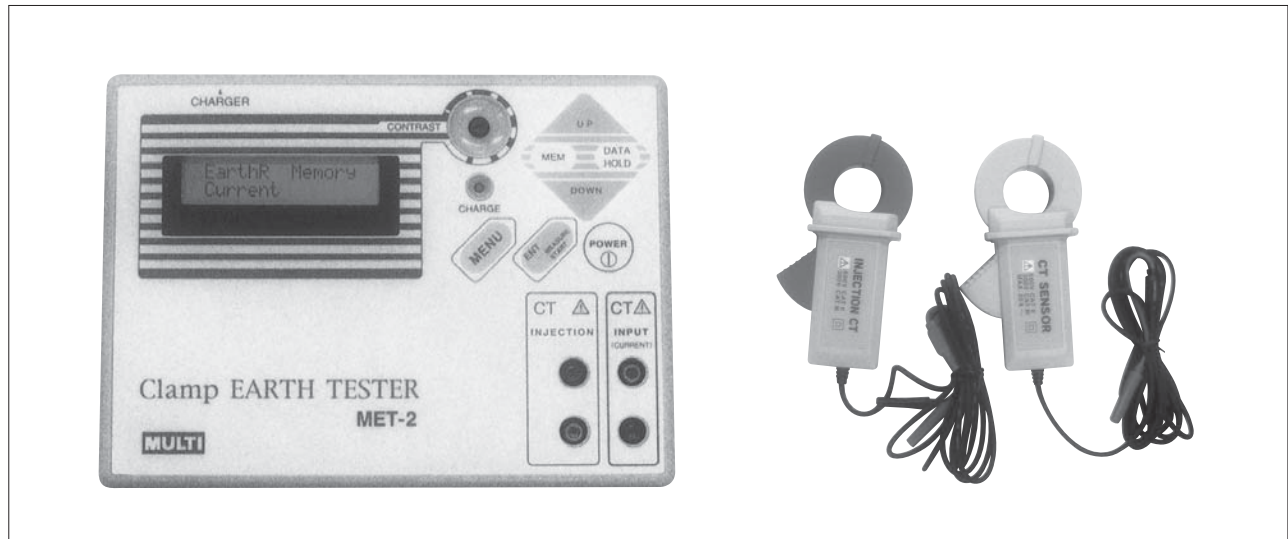
Model MET-2

FEATURES

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

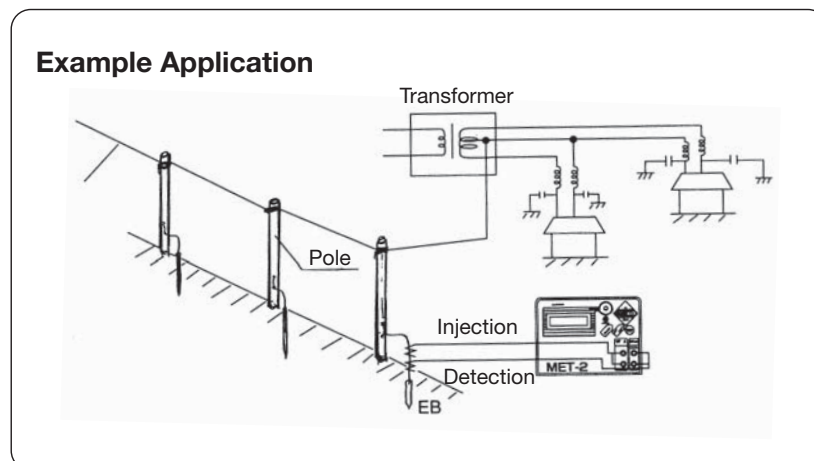
GENERAL

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



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.



CLAMP EARTH TESTER

Model MET-2

SPECIFICATIONS

Measuring function	: Earth Resistance, AC Current (Line & Leakage)
Measuring method	: Dual integration mode
Display	: LCD 16 letters/characters × 2 line with contrast adjuster
Safety standard	: Meets the requirements for double insulation to IEC 61010-1 installation Category II . 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 and 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 switch on.
Data hold function	: "DH" mark on LCD readout
Memory function	: 40 measuring data can be stored and displayed
Accuracy	: 23°C ± 5°C, 80% RH max.

Earth Resistance

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

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	: 34 φmm with 2.5m lead
CT for injection	: 34 φmm, auto sweep 4KHz ~ 200KHz sine wave Signal injection level/approx. 320mV p-p
Storage temperature	: -10°C ~ 60°C, <80% without condensation
Operating temperature	: 0°C ~ 40°C, <80%RH without condensation
Limitation of Circuit voltage	: less than 500V low voltage circuit
Withstanding voltage	: AC 3700V, [1 minute between CT body and CT core.] AC 2300V, [1 minute between power supply and outer case.]
Insulation resistance	: More than 100MΩ [between CT body and CT core.] More than 50MΩ [between power supply and outer case.]
Power supply	: Internal Ni-Cad battery (1.2V × 5), Charger:AC200V/DC10V,400mA
Power consumption	: Approx. 380mA[At earth resistance measurement]
Battery life	: 400 times measurement under full charged condition (Subject to the times of charging & discharging)
Size & weight	
CT for detection	: 90.5(W) × 165(H) × 38(D)mm, approx. 460grs
CT for injection	: 90.5(W) × 165(H) × 38(D)mm, approx. 440grs
Main body	: 190(W) × 140(H) × 42 (D)mm, approx. 800grs
Standard accessories	: One each of Detection CT Injection CT, Charger Carrying Case Instruction Manual & Subsidiary lead wire