

# MULTI

## EARTH RESISTANCE CLAMP TESTER

CLAMP EARTH TESTER WITH BLUETOOTH CONNECTION

### Model MET-10X

Earth Resistance and Surge impedance measurement by  $\Phi 34$  mm or  $\Phi 80$  mm diameter clamps  
Next clamp-type grounding resistance tester that can connect to a smartphone via Bluetooth and save data on an our cloud server.



### FEATURES

- By connecting to a smartphone or tablet via Bluetooth, it is possible to operate and save data at a remote location (MAX around 10 m)
- 25 kHz fixed surge impedance measurement
- Measurement with the big diameter CT of  $\Phi 80$  mm (Option)

### SPECIFICATIONS

Measuring function	Earth Resistance AC Current (Load and Leakage) Surge Impedance		
Earth Resistance & Surge impedance measurement (23 °C $\pm$ 5 °C, 80 %RH or less)	Range : Low Measurement range : 0.10 ~ 10.00 $\Omega$ Resolution : 0.01 $\Omega$ Accuracy : 0.10 ~ 1.00 $\Omega$ : $\pm$ 0.1 1.00 ~ 10.00 $\Omega$ : $\pm$ 0.5 $\Omega$	Range : High Measurement range : 10.0 ~ 500.0 $\Omega$ Resolution : 0.1 $\Omega$ Accuracy : 10.0 ~ 50.0 $\Omega$ : $\pm$ 2.0 $\Omega$ 50.0 ~ 200.0 $\Omega$ : $\pm$ 5.0 $\Omega$ 200.0 ~ 300.0 $\Omega$ : $\pm$ 20.0 $\Omega$ 300.0 ~ 500.0 $\Omega$ : $\pm$ 30.0 $\Omega$	
AC current measurement (23 °C $\pm$ 5 °C, 80 %RH or less)	Range : 200 mA Measurement range : 0.0~200mA Resolution : 0.1 mA Accuracy : 3 %rdg $\pm$ 8 dgt	Range : 2000 mA Measurement range : 200~2000mA Resolution : 1 mA Accuracy : 2 %rdg $\pm$ 8 dgt	Range : 20 A Measurement range : 2.00~20A Resolution : 0.01 A Accuracy : 2 %rdg $\pm$ 8 dgt

Injection signal	Approx. 160 mVp-p, Auto sweep 4 kHz ~ 200 kHz
Memory function	200 measuring data can be stored and displayed
Measuring CT	φ34 mm with 2.5 m lead
Injection CT	φ34 mm with 2.5 m lead
Measuring time	Earth Resistance: Approx. 30 sec. /1 time Surge impedance: Approx. 1 sec. /1 time
A/D Conversion	Dual slope integration mode
Over range indication	"OVER" on LCD
Data hold indication	"DH" mark on LCD
Low battery indication	Battery mark on LCD
Sampling	Approx. 2 times/1 sec. for AC current
Auto power off function	Approx. 10 min. after the last button operation
Withstanding Voltage	AC 3700 V, 1 min. (between CT core and CT handle)
Insulation Resistance	More than 100 MΩ by 500 V insulation resistance tester (between CT core and CT handle)
Limitation of circuit voltage	Less than 500 V
Size and Weight	Main unit : 190(W)×140(H)×42 (D) mm, approx. 450 g Measuring φ34 mm CT : 90.5(W)×165(H)×38(D) mm, approx. 460 g  Measuring φ80 mm CT : 125(W)×240(H)×40(D) mm, approx. 570 g Injection φ34 mm CT : 90.5(W)×165(H)×38(D) mm, approx. 440 g Injection φ80 mm CT : 125(W)×240(H)×40(D) mm, approx. 670 g Optional shielded reinforcement: 123(W)×120(H)×42(D) mm, approx. 220 g  Attention : The injection φ80 mm CT and the measuring φ80 mm CT should be isolated distance between around 80 cm, but if can not be kept apart this distance, the injection φ80 mm CT has to install the optional shielded reinforcement.
Storage Temperature	-10 °C ~ 60 °C, < 80 %RH (without condensation)
Operating Temperature	0 °C ~ 40 °C, < 85 %RH (without condensation)
Power supply	AA alkaline battery Lr6×4 AC adapter (US type)
Power consumption	Approx. 160 mA When battery voltage 6 V (Earth resistance measurement)
Accessories	Measuring CT : 1 Injection CT : 1 Carrying case : 1 Subsidiary lead wire : 1 Instruction manual : 1
Option	AC adapter <UNI315-0916> Measuring φ80 mm CT Injection φ80 mm CT Optional shielded reinforcement



**POWERTRONICS PVT. LTD.**  
AN ISO 9001 : 2015 COMPANY

## TAURUS POWERTRONICS PVT LIMITED

**Corporate Off.:** No. 26, "Mahadimane", 12th Main, 1st Block, Rajajinagar, Bengaluru - 560 010. INDIA., **Tel :** + 91 80 23012301  
**Email :** info@tauruspowertronics.com, care@tauruspowertronics.com, **WhatsApp :** +91 73496 44344  
**Sales & Service Off.:** No. 648/54, KLE College 2nd Block, Rajajinagar, Bengaluru - 560 010. INDIA.

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