

## INTRODUCTION

The Metravi CET series Clamp-on Earth Resistance Testers are widely used in earth resistance measurement and loop resistance measurement in electric power, telecommunications, meteorology, oil fields, construction and industrial electrical equipment.

When measuring the grounding system of the loop circuit, there is no need to disconnect the grounding down lead or auxiliary earth electrode, and it enables safe and fast testing.

The testers can measure ground faults that cannot be measured by traditional methods, and can be applied to the site which cannot be measured by traditional methods, as earth resistance tester measures the comprehensive value of the grounding body resistance and the grounding lead resistance.

Metravi CET series Clamp-on Earth Resistance Testers have both long jaw and round jaw styles.

The long jaw style is suitable for the site of flat steel grounding. Models CET-03B and CET-04B clamp-on earth resistance testers can also measure leakage current grounding system and the neutral current.

## FEATURES

- Avoids long self-test waiting after power-on, and enters the test interface immediately after power-on.
- No relay self-test and adopts advanced algorithms and digital integrated processing technology.
- No bulky problem of old products and is portable & handheld.
- New housing & design, six operation keys on the panel, easy to operate.
- Added **sound and light alarm** function, will have ""beep--beep--beep--"" alarm sound.
- Added interference signal identification and indication function, will have ""beep--beep--beep--"" prompt sound.
- Measurement range **0.01Ω-1500Ω**.
- **Stores 99 groups of data**, has lower power consumption, maximum startup and operating current less than 50mA.
- **Bluetooth enabled** and Free App for data storage and analysis.



\*Technical Specifications & Appearance are subject to change without prior notice

**MODELS**

Note: "√" means available.

Model	Jaw specification	Range of measurement	Range of Current	Storage	Bluetooth	Alarm
CET-01B	φ32mm	0.01Ω - 1500Ω	----	99 Units	√	√
CET-02B	65mm×32mm	0.01Ω - 1500Ω	----	99 Units	√	√
CET-03B	65mm×32mm	0.01Ω - 1500Ω	0.0mA - 35.0A	99 Units	√	√
CET-04B	φ32mm	0.01Ω - 1500Ω	0.0mA - 35.0A	99 Units	√	√
CET-05B	65mm×32mm	0.01Ω - 200Ω	----	99 Units	√	√
CET-06B	φ32mm	0.01Ω - 200Ω	----	99 Units	√	√

**Earth / Ground Resistance**

Range	Resolution	Accuracy
0.010Ω - 0.099Ω	0.001Ω	±(1%+0.01Ω)
0.10Ω - 0.99Ω	0.01Ω	±(1%+0.01Ω)
1.0Ω-49.9Ω	0.1Ω	±(1%+0.1Ω)
50.0Ω-99.5Ω	0.5Ω	±(1.5%+0.5Ω)
100Ω-199Ω	1Ω	±(2%+1Ω)
200Ω-395Ω	5Ω	±(5%+5Ω)
400-590Ω	10Ω	±(10%+10Ω)
600Ω-880Ω	20Ω	±(20%+20Ω)
900Ω-1500Ω	30Ω	±(25%+30Ω)

**Current (True-RMS)**

Range	Resolution	Accuracy
0.00mA -9.00mA	0.05mA	±(2.5%+2mA)
10.0mA -99.0mA	0.1mA	±(2.5%+10mA)
100mA -300mA	1mA	±(2.5%+20mA)
0.30A-2.99A	0.01A	±(2.5%+0.1A)
3.0A-9.9A	0.1A	±(2.5%+0.5A)
10.0A-35.0A	0.1 A	±(2.5%+1 A)



Resistance Measurement Frequency : >1KHz Measured Current Frequency: 50Hz/60Hz  
Setting Range of Resistance Alarm Critical Value : 1Ω-199Ω \*Setting Range of Current Alarm Critical Value : 1mA -499mA

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**TECHNICAL SPECIFICATIONS**

SPECIFICATION	DETAILS
Clamp Jaw Size	Long clamp jaw 65mmX32mm Round clamp jaw: $\Phi$ 32mm
Open Clamp Jaw Size	Long clamp 65X32mm Round clamp 32mm
Resistance Range	0.01 $\Omega$ -1500 $\Omega$
Resistance Resolution	0.001 $\Omega$
Current Range*	0.00mA-35.0A
Current Resolution*	0.05mA
Data Storage	99 groups
Interface	Bluetooth
Free Smartphone App	For data storage and analysis
Alarm	"beep--beep--beep --" alarm sound. Press "AL" key to turn on/off
Alarm Critical Value Setting Range	Resistance:1-199 $\Omega$ ; * Current:1-499mA
Protection	Double insulation
Sampling Time	0.5 s
Resistance Measurement Frequency	>1kHz
Measured Current Frequency*	50/60Hz automatically
Power Supply	6VDC (4 PCS alkaline dry battery)
Display	4-bit LCD digital display, 47mm(L) $\times$ 28.5mm(W)
Weight	Long clamp jaw type: 1160g Round clamp jaw 1090g
Tester Dimensions	Long clamp jaw type:279mm(L)x100mm(W)x56 mm(H) Round clamp jaw type:260mm(L)x100mm(W)x66 mm(H)
Structure	Clamp CT
Shift	Automatic Shift
External Magnetic Electric field	<40A/m ; <1V/m
Working Temperature & Humidity	-20 $^{\circ}$ C ~ 55 $^{\circ}$ C ; 10%RH~90%RH
<i>Note: with "*" mark, feature/specification is limited to CET-03B/CET-04B models only</i>	

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