

## 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-05S and CET-05AS Clamp-on Earth Resistance Testers have the long jaw style, which is suitable for the site of flat steel grounding.

Model CET-05AS Clamp-on Earth Resistance Tester 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, 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-500Ω/1000Ω\***.



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

**MODELS - SPECIFICATION**

Note: "√" means available.

Mode	Jaw specification	Range of measurement	Range of Current	Storage	Alarm
CET-05S	55mm×32mm	0.01Ω - 200Ω	----	99 Units	√
CET-05AS	55mm×32mm	0.01Ω - 1000Ω	0.00mA - 30A	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-100Ω	20Ω	±(20%+20Ω)

**Leakage Current**

Range	Resolution	Accuracy
0.00mA -9.99mA	0.01mA	±(2.5%+1mA)
10.0mA -99.9mA	0.1mA	±(2.5%+5mA)
100mA -300mA	1mA	±(2.5%+10mA)
0.30A-2.99A	0.01A	±(2.5%+0.1A)
3.0A-9.9A	0.1A	±(2.5%+0.3A)
10.0A-19.9A	0.1 A	±(2.5%+0.5A)
20.0A-30.0A	0.1 A	±(3%+1A)



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

**TECHNICAL SPECIFICATIONS**

SPECIFICATION	DETAILS
Clamp Jaw Size	Long clamp jaw 55mmX32mm
Open Clamp Jaw Size	Long clamp 55X32mm
Resistance Range	CET-05S 0.01Ω-200Ω    CET-05AS 0.01Ω-1000Ω
Resistance Resolution	0.001Ω
Current Range*	0.00mA-30A only for CET-05AS
Current Resolution*	0.01mA
Alarm	"beep--beep--beep --" alarm sound. Press "AL" key to turn on/off
Alarm Critical Value Setting Range	Resistance:1-199Ω; * 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) × 28.5mm(W)
Weight	2.03 kg including batteries
Tester Dimensions	Long clamp jaw type:277mm(L)x100mm(W)x57 mm(H)
Structure	Clamp and Jaw type
Shift	Automatic Shift
External Magnetic Electric field	<40A/m ; <1V/m
Working Temperature & Humidity	-10°C ~ 55°C ; 10 % RH ~ 90 % RH
External Electromagnetic Fields	<1V/m; <40A/m
Safety Regulations	IEC61010-1, IEC1010-2-31, IEC61557-1, Pollution Degree 2, CAT III 300V, JIG 1054-2009 Clamp-on Earth Resistance Tester

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