

## INTRODUCTION

The Metravi **CET-02EX** is an Explosion Proof Clamp Type Earth Resistance Tester. It is a result of the continuous research and development effort and the drive for innovation that are our core fundamentals.

With the **CET-02EX** we have made many improvements in the existing functionalities like :

- ⇒ Improvement to the boot up process that has lead to significant reduction in the boot up time, now the device boots up instantaneously.
- ⇒ Using the most advance digital integration technology with new processing algorithms, the self test has been upgraded to be more accurate.
- ⇒ We have made the device lighter, more ergonomic and more inline with handheld device specifications.
- ⇒ With a new panel and 6 button operation for better performance.
- ⇒ Improved audio and visual alarm.
- ⇒ Enhanced recognition of interference signal using audio indicator
- ⇒ Measurement range : 0.01Ω-1200Ω
- ⇒ 99 unit data memory.
- ⇒ Low power consumption, maximum operating current less than 50mA.

The Metravi **CET-02EX** Explosion proof Clamp Type Earth Resistance Meter is widely used for Grounding Resistance Measurement in the sectors of Power, Telecommunications, Meteorology, Oil and Gas exploration and extraction, Mining and various other industrial and electrical applications. It is safer and more efficient as it doesn't require the breaking of grounding lead, or the use of any external electrode, it is able to measure a grounding system with loop. It is safe, fast and simple to use. It is able to measure ground faults which can not be measured with traditional methods. It is ideal for use in applications where the traditional methods of grounding measurement can not be used, the **CET-02EX** uses combined value of grounding body resistance and grounding lead resistance.

The **CET-02EX** has passed the certification for explosion proof and has met the GB3836-2000 standard for explosive gas environment for electrical equipment. The explosion proof mark is Exia II BT3Ga. The Explosion proof qualified number is CE18.2380. It has been approved for application to corresponding inflammable and explosive environment.



## Range and Accuracy

Measure Range	Resolution	Accuracy Class
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-1200Ω	30Ω	± (25%+30Ω)

## SPECIFICATIONS

<b>Resistance Range</b>	: 0.01Ω-1200Ω
<b>Resistance Resolution</b>	: 0.001Ω
<b>Data Storage</b>	: 99 unit
<b>Audio - light alarm</b>	: “beep--beep--beep --” alarm sound Press “AL” key to turn on and off
<b>Alarm Critical Value</b>	
<b>Setting Range</b>	: Resistance : 1-199Ω
<b>Power</b>	: 6VDC (4 PCS alkaline dry battery)
<b>Working Temp</b>	: -20°C-55°C; 10%RH - 90%RH
<b>LCD Screen</b>	: 4-bit LCD digital display, 47mm (L) × 28.5mm (W)
<b>Jaw size (mm)</b>	: Long-jaw 65mm X 32mm
<b>Open size of Jaw (mm)</b>	: Long clamp 32mm
<b>Weight</b>	: 1160g
<b>Meter Size</b>	: 285mm (L) x 85mm (W) x 56 mm (H)
<b>Protection Level</b>	: Double insulation
<b>Structure</b>	: Clamp CT
<b>Shift</b>	: Automatic shift
<b>Explosion Mark</b>	: Exia II BT3 Ga
<b>External Magnetic</b>	
<b>Electric field</b>	: < 40A/m; <1V/m
<b>Single Measurement Time</b>	: 0.5 s
<b>Resistance Measurement Frequency</b>	: >1kHz

