



Type : OIT-14

Surge Impedance Meter

Measuring instrument for transient grounding impedance

〈Features〉

○ This product can measure transient grounding impedance (Effective surge impedance※), but a ground resistance tester cannot measure it.

Transient grounding impedance (effective surge impedance) due to lightning etc. is different from normal grounding resistance, because it is influenced by the reactance and capacitance contained in the ground. It is very important to measure the transient grounding impedance in a ground pole at lightning protection equipment, leg of power transmission tower, leg of communication antenna tower etc. where lightning surge current flows into them.



Example of use



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○ This product can measure transient grounding impedance without removing the overhead ground wire of the transmission tower.

○ Small, lightweight, easy to operate

○ Operation check with the test resistor

The simple operation check can be performed, in order to confirm the proper measurement by this product



The test resistor

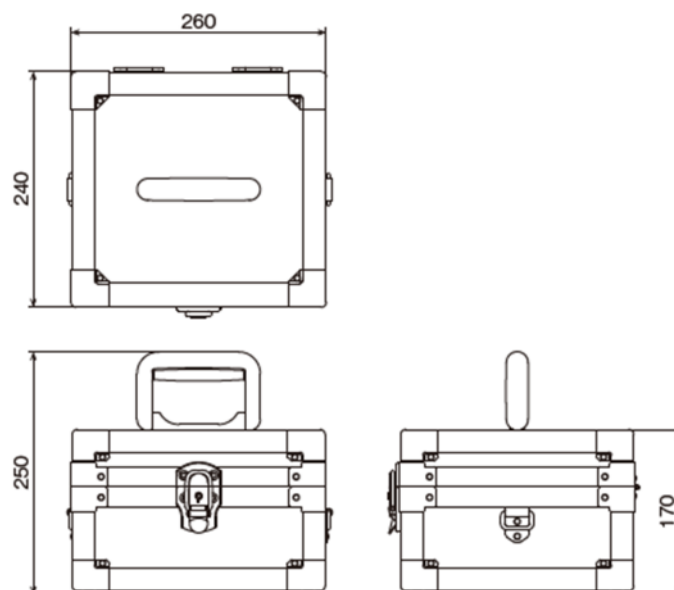
※ The effective surge impedance means the measured maximum value of the voltage when the current with the front wave shape at $1 \mu s$ flows into the ground, is divided by the maximum current value which flows into the ground.

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〈Dimension drawing〉



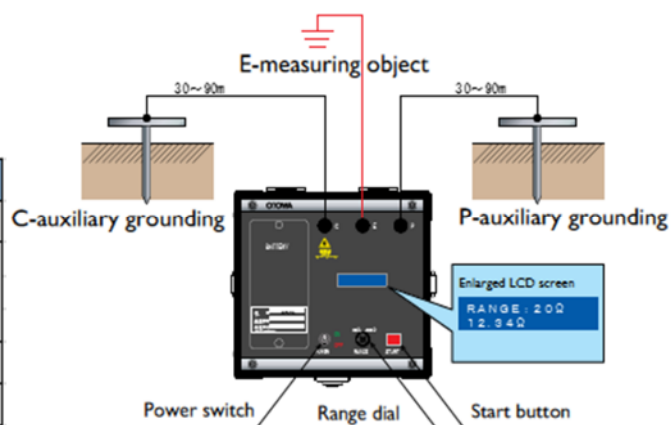
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〈Example of use〉

〈Characteristic table〉

Model	OIT-14
Generating voltage	5kV
Current wave shape	Right angle wave impulse (0.5 μ s or less / 200 μ s or more) Current peak value: approx. 1A
Measurement range	1 to 199 Ω
Range dial	20 Ω /200 Ω switchabl
Power supply	DC6V (D battery, 4pcs.)
Operating temperature range	0 to +50°C
Dimensions	W: 260 D: 240 H: 170 (not including handle)
Main unit weight	Approx. 6 kg



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