Clamp Earth Tester

Model MET-1
Simple earth resistance measurements without auxiliary spikes and test leads

FEATURES

● Test frequencies are selected automatically to minimize erroneous measurements.
● Earth resistance measurements for single & multi earthing systems.
● Leakage current and load current measurements with 200mA, 2000mA and 10A ranges.
● Data hold and auto power off function.
● 200 Ω earth resistance range

Application example
**SPECIFICATIONS**

Measuring function   : Earth Resistance, AC Current (Load & Leakage)
A/D conversion      : Dual slope integration mode
Display             : LCD, 16 letters/characters x 2 lines
                       : with contrast adjuster
Safety standard      : IEC 61010-1, IEC61010-2-032
                       : Installation category II, 600V or CAT III 300V
Sampling             : Approx. 2 times/sec. for AC current
Measuring time       : Approx. 30 second for earth resistance
Over range indication: “OVER” on LCD
Low battery indication: “B” mark on LCD
Data hold indication : “DH” mark on LCD

Range & Accuracy (23°C ± 5°C, 85% or less)

**Earth Resistance**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>0 ~ 10Ω</td>
<td>± 0.2Ω</td>
<td></td>
</tr>
<tr>
<td>10 ~ 50Ω</td>
<td>± 1.0Ω</td>
<td></td>
</tr>
<tr>
<td>50 ~ 200Ω</td>
<td>± 5.0Ω</td>
<td></td>
</tr>
</tbody>
</table>

**AC current**

<table>
<thead>
<tr>
<th>Range</th>
<th>Resolution</th>
<th>Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>200mA</td>
<td>0.1mA</td>
<td>2% rdg ± 8dgt</td>
</tr>
<tr>
<td>2000mA</td>
<td>1.0mA</td>
<td>2% rdg ± 8dgt</td>
</tr>
<tr>
<td>10A</td>
<td>0.01mA</td>
<td>2% rdg ± 8dgt</td>
</tr>
</tbody>
</table>

Measuring CT : φ 34mm with 2.5m lead
Injection CT : φ 34mm with 2.5m lead
Injection signal : Approx. 320mVp-p, Auto sweep 4KHz ~ 400KHz
Operating temperature : 0°C ~ 40°C, <85%RH (without condensation)
Storage temperature : -10°C ~ 60°C, <80% (without condensation)
Limitation of circuit : Less than 500V voltage
Withstanding voltage : AC 3700V, 1 minute (between CT core and CT handle)
Insulation resistance : More than 100MΩ (between CT core and CT handle)
Power supply : Ni-Cad battery (1.2V x 5)
Battery charger : AC100V ~ 240V (50/60Hz)
Auto power off function : Approx. 5 minutes after power on
Battery life : 450 times measurements under full charged condition
               (Subject to the times of charging & discharging)

(Size & weight)
Measuring CT : 90.5(W) x 165(H) x 38(D)mm, approx. 460g
Injection CT : 90.5(W) x 165(H) x 38(D)mm, approx. 440g
Main unit : 190(W) x 140(H) x 42(D)mm, approx. 800g
Accessories : Measuring CT ..................... 1
              Injection CT ...................... 1
              Battery charger .................. 1
              Carrying case ..................... 1
              Instruction manual ............... 1

Optional accessory : Subsidiary lead wire