Model: DUORES®
Hand held Sheet resistance measurement instrument
[Replaceable probe set (Non-destructive probe & Contact probe)]

Easy to measure sheet resistance & carry around
Replaceable hand-held probes for Non-destructive & Contact type

Features

- **<NAPSON Original Technology>**
  Replaceable hand-held probes for 2 kinds of measurement methods
  <1> Non-destructive type (Eddy current method)
  <2> Contact type (4-point probe method)
- Auto-measurement start by probe head unit put on/probe contact to sample
- Long-battery run time: 24h*
  (*Battery-operated mode)
- Measurement data display: Max. 100 data
- Measurement data save: Max. 50,000 data
- Measurement data transfer by USB-Mini
- Measurement unit: Ω/□, S/□, n/m
- Data displayed by 4 digit floating decimal point

Applications

Any sample within the measurement range can be measured. (Films, Glass, Papers etc)
- Thin-film (ITO, TCO etc)
- Low-E-Glass
- CNT (Carbon nanotubes), Graphen materials
- Metals (nano-wires, grids, meshes, thin films)
- Others

*Please contact us for details & demo-measurement.

Sample sizes

Any size and shape can be measured.
(*Larger than measurement spot size)
**Measurement Range & Accuracy**

<table>
<thead>
<tr>
<th>Probe Type</th>
<th>Measurement Range</th>
<th>Measurement Accuracy</th>
</tr>
</thead>
<tbody>
<tr>
<td>Non-destructive probe (Eddy current type)</td>
<td>0.5 - 200 ohm/sq</td>
<td>- 0.5~100 ohm/sq : (\leq 3.0%)^1</td>
</tr>
<tr>
<td></td>
<td></td>
<td>- 100~200 ohm/sq : (\leq 5.0%)^1</td>
</tr>
<tr>
<td>Contact probe (4point probe type)</td>
<td>0.1 - 4000 ohm/sq</td>
<td>(\leq \pm 0.5%)^2</td>
</tr>
</tbody>
</table>

*1 Repeatability: Repeatability of Napson STD sample measurement (CV = STDEV/P\(AVG\) \(\times 100\%\)). [Before Shipment]
*2 Accuracy: Accuracy of Napson STD resistor measurement. [Before shipment]

**DUORES : Configuration**

<Configurations> Main body, Contact probe, Non-destructive probe, STD resistor (For Contact/Non-destructive probe, each 1pc), Battery charger, USB-USB mini cable, carrying case for DUORES

*One-half configurations ; (1) Mainbody + Non-destructive probe set, (2) Mainbody + Contact probe set are also available.

**Dimensions & Utilities**

<Dimensions> Main body : W80(100) \(\times\) D210 \(\times\) H36 mm, approx. 350g [*Battery cells are not included]*
Non-destructive probe : W70(\(\phi\)50) \(\times\) D20(\(\phi\)50) \(\times\) H70 mm, approx. 170g
Contact probe : W40 \(\times\) D15 \(\times\) H50 mm, approx. 85g

<Utilities> AC100~240V, 50/60Hz, DC9V 1A
*Please contact us for more details.
*The customers are always welcome to do Demo measurement.
*Specification subject & appearance to change without notice.