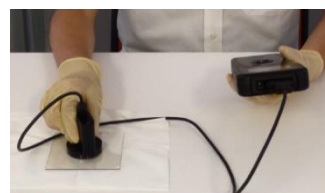


Model : DUORES®

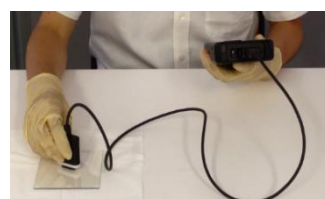
Hand held Sheet resistance measurement instrument
[Replaceable probe set (Non-destructive probe & Contact probe)]



Mainbody + Contact probe(Left) + Non-destructive probe(Right)



Non-destructive probe
(Eddy current method)



Contact probe
(4point probe method)

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(4point 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/\square , S/\square , n/m
- Data displayed by 4 digit floating decimal point

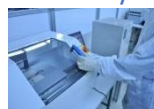
Applications

- 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)

A global leading company for resistivity measurement system.



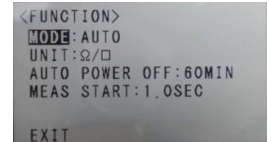
Measurement Range & Accuracy

Probe Type	Measurement Range	Measurement Accuracy
Non-destructive probe (Eddy current type)	0.5 - 200 Ω /sq	<ul style="list-style-type: none"> • 0.5~100 Ω/sq : $\leq 3.0\%$*1 • 100~200 Ω/sq : $\leq 5.0\%$*1
Contact probe (4point probe type)	0.001 - 4000 Ω /sq	$\leq \pm 0.5\%$ *2

*1 Repeatability : Repeatability of Napson STD sample measurement(CV = STDEVP/AVG \times 100%). [Before Shipment]

*2 Accuracy : Accuracy of Napson STD resistor measurement. [Before shipment] and the range 0.1-4000 Ω /sq.

DUORES : Configuration



Main Display

<Configurations> Mainbody, Contact probe, Non-destructive probe, STD resistor(For Contact/Non-destructive probe, each 1pc), Battery charger

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



Contact probe
Spacing : 3 mm



Non-destructive probe
Meas.Spot : ϕ 25 mm



Battery cell x 4pcs [*Not included]
(AA NiMH rechargeable cell battery)



Easy replacement work
for each measurement

Dimensions & Utilities

<Dimensions> Main body : W80(100) \times D210 \times H36 mm, approx.350g [*Battery cells are not included]

Non-destructive probe : W70(ϕ 50) \times D20(ϕ 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.