NAPSON CORPORATION

The Pioneer
for Sheet resistance/Resistivity
measurement

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
- Measurementunit: 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)

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	・0.5 ~ 100 Ω/sq : ≦3.0%*1 ・100 ~ 200 Ω/sq : ≦5.0%*1
Contact probe (4point probe type)	0.001 - 4000 Ω/sq	≦±0.5%*2

*1 Repeatability : Repeatability of Napson STD sample measurement(CV = STDEVP/AVG × 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 : ϕ25 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) × D210 × H36 mm, approx.350g [*Battery cells are not included]
Non-destructive probe : W70(ϕ50) × D20(ϕ50) × H70 mm, approx.170g
Contact probe : W40 × D15 x 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.

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