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
- 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 ohm/sq	 0.5~100 ohm/sq : ≤3.0%*1 100~200 ohm/sq : ≤5.0%*1
Contact probe (4point probe type)	0.1 - 4000 ohm/sq	≦±0.5%*2

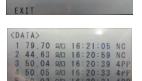
^{*1} Repeatability: Repeatability of Napson STD sample measurement(CV = STDEVP/AVG × 100%). [Before Shipment]

DUORES: Configuration









Main Display

< Configurations > Mainbody, 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.



Contact probe Spacing: 3mm



Non-destructive probe Meas.Spot : φ25mm



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(ϕ 50) \times D20(ϕ 50) \times 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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^{*2} Accuracy: Accuracy of Napson STD resistor measurement. [Before shipment]