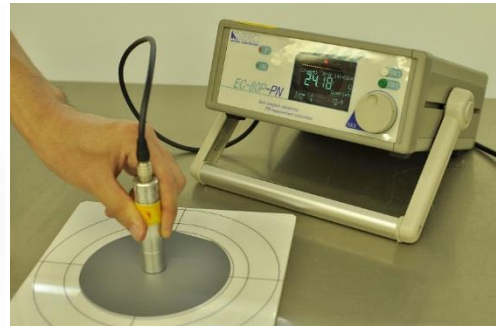


Model : EC-80P

Sheet resistance/resistivity measurement instrument
[Hand held probe type, Eddy current method]



*EC-80P-PN (Rs measurement + PN checker probe)



Free measurement by pen-type probe head Easy measurement handling & setting

Features

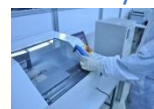
- Auto-measurement start by probe head contacting to sample
- 3 measurement modes for wafer resistivity, bulk resistivity and sheet resistance
- Easy set up to measurement condition by JOG dial
- 5 types of probe for each measuring range
- Resistivity probe can be changed by sample's resistivity range
(*Option ; 2nd & 3rd probe types)
- Measurement spot size (probe core size): 14mmφ
- <Option> PN type checker probe
(*PN Checking range in resistivity : 0.1 - 1,000 ohm.cm)

Applications

- Any sample within the measurement range can be measured.
- Wafer sample ;
Si, Compound(GaN,GaP), Epitaxial, Diffusion, SiC, etc
 - Thin film layer ;
Semiconductor process, Metal, ITO, IZO, Low-E glass, LED/OLED etc
 - Others

Sample sizes

- Any size and shape can be measured.
(*Larger than measurement spot size)



Measurement Range

*Concurrent connection ; Max. 2 probes, Number of probes ; Max. 3 probes

Probe Type	Measurement Range
(1) Low	0.01 - 0.5 ohm/sq (0.001 - 0.05 ohm.cm)
(2) Middle	0.5 - 10 ohm/sq (0.05 - 0.5 ohm.cm)
(3) High	10 - 1000 ohm/sq (0.5 - 60 ohm.cm)
(4) Super High	1000 - 3000 ohm/sq (60 - 180 ohm.cm)
(5) Solar wafer	5 - 500 ohm/sq (0.2 - 15 ohm.cm)

*Resistivity range for each probe type(ohm.cm) assumed thickness : 200 μ m.

Measurement Repeatability

Measurement Range	%
Low, Middle	\leq 1.0 %
High (10 - 400 ohm/sq)	\leq 1.0 %
High (400 - 1000 ohm/sq)	\leq 2.0 %
Super High	\leq 4.0 %
Solar wafer	\leq 1.5 %

*CV = STDEVP/AVG \times 100%

Repeatability by each ohm/sq (% of one sigma) and 10 times measurement (same site of the certified area of NIST and/or VLSI standards).

Dimensions & Utilities

<Dimensions> Main body : W255 \times D275 \times H95mm, 4kg

Handy probe : 20mm Φ x 80mm

<Utilities> AC100V \pm 10%, 50/60Hz, 100VA

*Please contact us for more details.

*The customers are always welcome to do Demo measurement.

*Specification subject to change without notice.