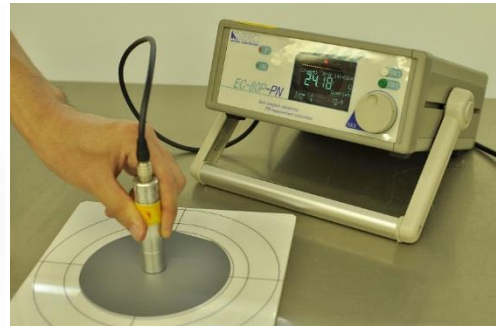


## Model : EC-80P

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 ; 2<sup>nd</sup> & 3<sup>rd</sup> 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 wafer, Epitaxial on the compound (Gan, GaP), 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 (0.0005 - 0.025 ohm.cm)
(2) Middle	0.5 - 10 ohm/sq (0.025 - 0.5 ohm.cm)
(3) High	10 - 1000 ohm/sq (0.5 - 50 ohm.cm)
(4) Solar wafer	5 - 500 ohm/sq (0.1 - 10 ohm.cm)

\*Resistivity range for each probe type(ohm.cm) assumed thickness : 500 $\mu$ m (solar wafer:200 $\mu$ m).

\* Resistivity is a reference value due to variations with sample thickness.

## Measurement Repeatability

Measurement Range	%
Low, Middle	$\leq$ 0.5 %
High	$\leq$ 1.0 %
Super High	$\leq$ 5.0 %*
Solar wafer	$\leq$ 3.0 %

\*CV = STDEV/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).

\*CV value is based on the inspection before shipment.

\*CV value will depend on the operator, especially, Super High range will have big influence by operating.

## Dimensions & Utilities

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

Handy probe : 20mm $\Phi$  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.