

고유/표면/체적 저항측정기(휴대형)

LORESTA-EP


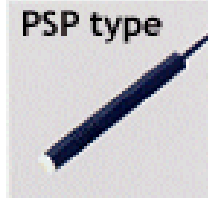
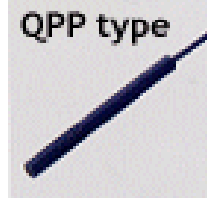


휴대형 표면 저저항측정기(측정범위 $10^{-2} - 10^6 \Omega$)

Loresta-EP <MCP-T360>

Loresta-EP 포터블 장비는 다양한 프로브를 사용해 저저항 범위의 고유저항 측정한다. 측정은 정확하고 매우 일관성 있다. 4-pin 프로브의 기술에 대한 특허와 데이터 저장에 대한 특징을 가지고 있다.



Optional Probes

ESP type	PSP type	QPP type	BSP type	TFP type
				
For non-uniform samples. interpin distance 5mm, pin points $\varnothing 2$, spring pressure 240g/pin. MCP-TP08P	For small samples. inter-pin distance 1.5mm, pin points 0.26R, spring pressure 70g/pin. MCP-TP06P	For minute samples. Square type. Inter-pin distance 1.5mm, pin points 0.26R, spring pressure 70g/pin. MCP-TPQPP	For large samples. inter-pin distance 2.2mm, pin points 0.37R, spring pressure 210g/pin. MCP-TP05P	For thin films. Inter-pin distance 1.0mm, pin points 0.15R, spring pressure 50g/pin. MCP-TFP

LORESTA-EP <MCP-T360>

Loresta-EP

용도

기술부, 품질관리부

적용

전도성 페인트, 납유리, 전도성 플라스틱, 전도성 고무,
전도성 필름, 금속박막, 정전기방지금속, EMI 차폐금속,
전도성 섬유, 전도성 세라믹 등등

특징

고유저항계

- 소형경량의 휴대형
- 포터블
- LCD형의 간단하고 쉬운 작동
- 정확하고 일관성유지

MCP 프로브

- One-Touch 측정
- 일정한 돌출압력, 내부핀 거리
- 접촉저항과 와이어 저항제외

사양

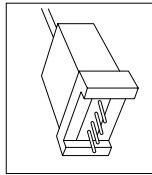
Method of Measurement	4-Pin probe constant-current method								
Measurement range	10 ⁻²	10 ⁻¹	10 ⁰	10 ¹	10 ²	10 ³	10 ⁴	10 ⁵	10 ⁶
Supplied current	100mA		10mA		1mA		100uA	10uA	1uA
Measurement trueness (±%of reading ± digits)	±1.0 % ±20d gt	±1.0% ±3dgt	±0.5% ±3dgt	±0.5% ±3dgt					±2.0% ±5dgt
Display	LCD								
Power	DC 6.5V, 350mA								
4-pin probe	MCP Probe(ASP,ESP,PSP,BSP,QPP,TFP types)								
Data output	RS232C								
Dimensions, Weight	W100 x D230 X H450 mm, 500g								
Standard accessories	ASP probe : MCP-TP03P(4pins,inter-pin distance 5mm, pin point 0.37R) AC adapter : MCP-TA05(DC6.5V, 350mA rechargeable battery)								

[R8] Products Lineup for Loresta Series

~An abundant lineup for measuring low resistivity in R&D, production engineering, and quality control~

4-pin Probes

The 4-pin probes make it possible to perform stable, highly precise measurements of low resistivity according to the shape of the sample.



W35 X L20 X H35mm
Inter-pin distance: 5 mm



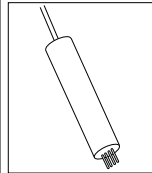
The standard accessory
Inter-pin distance: 5 mm, pin points
 ϕ 0.378, spring pressure: 210 g/pin.
RMH110 (MCP-TP03P)



For non-uniform samples
Inter-pin distance: 5 mm, pin points
 ϕ 0.2, spring pressure: 240 g/pin.
RMH114 (MCP-TP08P)



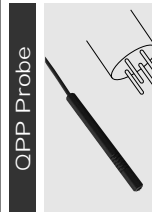
For soft samples
Inter-pin distance: 5 mm, pin points ϕ 2
ball type, spring pressure: 130 g/pin.
RMH116 (MCP-TPLSP)



ϕ 10-12 X L112mm



For minute samples
Inter-pin distance: 1.5 mm, pin points
0.26R, spring pressure: 70 g/pin.
RMH115 (MCP-TP0PP)



For small samples and thin films
Inter-pin distance: 1.5 mm, pin points
0.26R, spring pressure: 70 g/pin.
RMH112 (MCP-TP06P)



For large samples
Inter-pin distance: 2 mm, pin points
0.378, spring pressure: 210 g/pin.
RMH111 (MCP-TP05P)



For thin films on glass substrate
Inter-pin distance: 1.0 mm, pin points
0.15R, spring pressure: 50 g/pin.
RMJ217 (MCP-TFP)



For hard samples
Inter-pin distance: 1.0 mm, pin points
0.04R, spring pressure: 250 g/pin.
RMJ202 (MCP-NSCP)

Probe Checkers

For inspecting the main body and 4-pin probes



Inspect with a probe checker before measurement.



4-pin 1.0Ω



4-pin 1.0Ω



4-pin 1.0Ω

For ASP, ESP and LSP Probes
RMH304 (MCP-TRF1)

For PSP Probe
RMH311 (MCP-TRPS)

For TFP and NSCP Probes
RMH312 (MCP-TRTE)

Low Resistivity Meters

Based on the 4-pin probe theory, these high-precision resistivity meters make it possible to maintain high-consistent product quality.



Loresta GP

(Measuring range: $10^{-1} \sim 10^1 \Omega$)
An intelligent, easily operated, multi-purpose model.
For production engineering, quality control, R&D.

RMH012B [120V]
RMH012C [220/240V]
(MCP-T610)



Loresta EP

(Measuring range: $10^{-1} \sim 10^1 \Omega$)
A handy type model has a memory backup (maximum 1,000 data).
For production engineering, quality control.
CE marking is not applied.

RMH009B [120V]
RMH009C [220/240V]
(MCP-T360)

Measuring Stage

A stage for measuring without interference from noise.

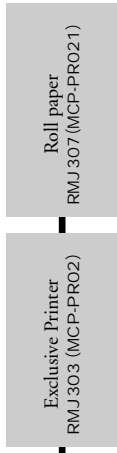


Restable UFL
W300xD200xH10mm
RMJ354 (MCP-ST03)

Out put

Makes it easy to obtain the results

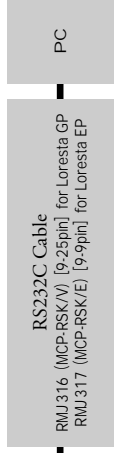
Convenient, portable printer



Exclusive Printer
RMJ303 (MCP-PRO2)

Roll paper
RMJ307 (MCP-PRO21)

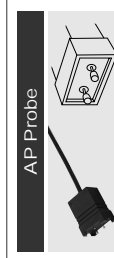
Data output and controlled by PC (Loresta GP only)



RS232C Cable
RMJ316 (MCP-RSK/V) [9-25pin] for Loresta GP
RMJ317 (MCP-RSK/E) [9-9pin] for Loresta EP

PC

2-pin Probes and checker



AP Probe



BP Probe

The standard type
Inter-pin distance: 10 mm, pin points
 ϕ 2, spring pressure: 240 g/pin.
RMH117 (MCP-TPAP)

For large samples
Inter-pin distance: 2 mm, pin points
 ϕ 2, spring pressure: 240 g/pin.
RMH118 (MCP-TPBP)



2-pin 1.0Ω

For AP and BP Probes
RMH302
(MCP-TRT1)

*A Probe and B probe cannot be connected directly, 2-pin 4-pin conversion connector is necessary.

Note:

Measurement in the low resistivity range is conducted by the "constant current method", in which a constant current supplied to the sample. Please be aware that if the impressed voltage is low when the current is supplied, measurement will be impossible because the current flow is unstable (e.g., in the case of plastic filled with carbon powder, metallic fiber, etc.).

Loresta GP	Loresta EP
90V	4-5V ($10^{-2} \sim 10^1 \Omega$ range)
10V	10V ($10^0 \sim 10^6 \Omega$ range)