

Loresta-GX<sup>MCP-T700</sup>

Accurate resistivity measurement using the reliable  
4-pin probe method

# Loresta-GX

Low resistivity meter, Measuring range  $10^{-4} \sim 10^7 \Omega$

Expanded Measuring Range and Useful Functions  
Functional 7.5-inch color LCD Touch-Screen



- Expanded measuring range,  $10^{-4} \sim 10^7 \Omega$
- Silicon Mode for silicon wafer measurement
- One-touch automatic measurement by new functions, Auto-hold and Timer Mode.

Standard accessories



ASP Probe  
MCP-TP03P



Probe checker  
MCP-TRF1

# Loresta-GX

(MCP-T700)

- Accurate Low Resistivity Meter based on 4 Terminal 4 Pin Method
- One-touch measurement by MCP Probe on  $\Omega$ ,  $\Omega/\square$ ,  $\Omega \cdot \text{cm}$  and  $\text{S/cm}$
- Operation on Touch-Screen, RCF setting, Measurement, Data Save, Data Output and Data Management

Accurate and quick measurement of materials' resistivity

## 4 Terminal 4 Pin Method

- High accuracy with eliminating contact resistance between sample and probe and lead wire's resistance
- MCP Probes' spring contact method keeps constant pin pitch, pressure and contact area on samples



●Probe should be placed perpendicularly on samples.

### Uses

- Production engineering
- Quality control
- R & D

### Applications

- Conductive paint, Conductive ink, Conductive paste, Resistive paste (carbon etc.), Conductive plastics, Conductive rubber, Silicon wafer
- Conductive films, Transparent conductive films, ITO Glass, Metal evaporated films, Sprayed metal layers, Sheet metals, Antistatic materials, Electromagnetic shield materials, Conductive fiber, Conductive ceramics, etc.
- Plating, Magnesium alloy, Surface treatment, etc.

### Features

- Expanded measuring range:  $0.001 \times 10^{-4} \sim 9.999 \times 10^7 \Omega$
- Operability on 7.5 inch color LCD touch screen
- One-touch operation: Automatic measurement with functional Auto-hold and Timer Mode
- Silicon Mode for silicon wafer measurement
- Low conductive materials are acceptable by Selectable Applied Current Function
- Current polarity reversing makes stable measurement

### Specifications

- Method : 4 Terminal 4 Pin Method
- Measurement mode : Auto-hold
- Mode : Measurement end by value's stability.
- Timer Mode : Measurement end by set time
- Display : 640x480dots, 7.5 inch full-color TFT-LCD touch screen
- Data output : USB flash memory
- Power source : AC85~264V 47~63Hz, 40VA
- Dimensions, weight : W320 x D285 x H110mm, Lid opened H200mm, approx. 2.4kg
- Standard accessory : ASP probe MCP-TP03P and Probe checker MCP-TRF1

\* Specifications and appearance are subject to change without prior notice.



●Check probes by Probe checker prior to measurements

		Supply current							
		1A	100mA	10mA	1mA	100 $\mu$ A	10 $\mu$ A	1 $\mu$ A	0.1 $\mu$ A
Range	$10^{-4}$	$\pm (2.0\% + 30\text{dgt})$							
	$10^{-3}$	$\pm (2.0\% + 20\text{dgt})$	$\pm (2.0\% + 20\text{dgt})$						
	$10^{-2}$	$\pm (1.0\% + 5\text{dgt})$	$\pm (1.0\% + 5\text{dgt})$	$\pm (2.0\% + 20\text{dgt})$					
	$10^{-1}$	$\pm (1.0\% + 3\text{dgt})$	$\pm (1.0\% + 3\text{dgt})$	$\pm (1.0\% + 5\text{dgt})$	$\pm (2.0\% + 20\text{dgt})$				
	$10^0$		$\pm (0.5\% + 3\text{dgt})$	$\pm (0.5\% + 3\text{dgt})$	$\pm (1.0\% + 5\text{dgt})$	$\pm (2.0\% + 20\text{dgt})$			
	$10^1$			$\pm (0.5\% + 3\text{dgt})$	$\pm (0.5\% + 3\text{dgt})$	$\pm (1.0\% + 5\text{dgt})$	$\pm (2.0\% + 20\text{dgt})$		
	$10^2$				$\pm (0.5\% + 3\text{dgt})$	$\pm (0.5\% + 3\text{dgt})$	$\pm (1.0\% + 5\text{dgt})$	$\pm (2.0\% + 20\text{dgt})$	
	$10^3$					$\pm (0.5\% + 3\text{dgt})$	$\pm (0.5\% + 3\text{dgt})$	$\pm (1.0\% + 5\text{dgt})$	$\pm (2.0\% + 20\text{dgt})$
	$10^4$						$\pm (0.5\% + 3\text{dgt})$	$\pm (0.5\% + 3\text{dgt})$	$\pm (1.0\% + 5\text{dgt})$
	$10^5$							$\pm (0.5\% + 3\text{dgt})$	$\pm (1.0\% + 3\text{dgt})$
$10^6$								$\pm (1.0\% + 3\text{dgt})$	
$10^7$								$\pm (2.0\% + 5\text{dgt})$	

### Options

\*Special shape probes are available.

#### ●ESP



#### MCP-TP08P(RMH114)

For non-uniform samples,  
Pin pitch 5mm  
Pin point's diameter  
2mm x 4pins  
Spring pressure 240g/pin

#### ●LSP



#### MCP-TPLSP (RMH116)

For soft surface samples,  
Pin pitch 5mm  
Pin top hemisphere  
2mm x 4pins  
Spring pressure 130g/pin

#### ●PSP



#### MCP-TP06P (RMH112)

For small samples,  
Pin pitch 1.5mm  
Pin points 0.26R x 4pins  
Spring pressure 70g/pin

#### ●QPP



#### MCP-TPQPP (RMH115)

For very small samples,  
Pin pitch 1.5mm  
Pin points 0.26R x 4pins  
Pin arrangement Square  
Spring pressure 70g/pin

#### ●BSP



#### MCP-TP05P (RMH111)

For very large samples,  
Pin pitch 2.5mm  
Pin points 0.37R x 4pins  
Spring pressure 210g/pin

#### ●NSCP



#### MCP-NSCP (RMJ202)

For Silicon Wafer,  
Pin pitch 1.0mm  
Pin points  $\phi 0.04$  x 4pins  
Spring pressure 250g/pin

### Note:

Follow instructions in manuals to correctly install, connect and operate the instruments. Contents of catalogues are subject to change without prior notice when improvements are made in performance. The actual color of the goods may appear different from color printed. All screen images are simulated.

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**MITSUBISHI CHEMICAL ANALYTECH CO., LTD.**

370 Enzo, Chigasaki, Kanagawa 253-0084, Japan.

Tel: +81-467-86-3864 Fax: +81-467-86-3862

URL: <http://www.mccat.co.jp>