

Loresta-GX MCP-T700

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

Nittoseiko Analytech Co., Ltd.

Loresta-GX

(MCP-T700)

- Accurate Low Resistivity Meter based on 4 Terminal 4 Pin Method
- One-touch measurement by MCP Probe on Ω , Ω/\square , $\Omega \cdot \text{cm}$ and 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 | 100μA | 10μA | 1μA | 0.1μA |
| 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

●QP2



MCP-TPQP2 (RMH119)

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 0.04R 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.

*Company and product names contained herein are the trademarks or registered trademarks of the company concerned.

Nittoseiko Analytech Co.,Ltd.

7-10-1 Chuo-rinkan, Yamato, Kanagawa 242-0007, JAPAN
Tel: +81(0)46-278-0056
URL: <https://www.mccat.co.jp/global>

RIFERIMENTO PER L'ITALIA



Qi srl
t +39 06 9105461
www.qitech.it | sales@qitech.it

CAT No.29080220041E