

MR 200 CSP - E

for thin conductive layers

High precision
resistance meters

Micro-ohmmeters

The MR 200 CSP - E Micro-ohmmeter is a special design for the high-precision measurement of electrically conductive connections (bondings), conductive layers, cables, plugs and similar test objects, used in particular in the aerospace industry.

It is the high-resistance variant of the Bounding Tester MRC100S-BD-3, in whose highest measuring range of 1.000 Ω measurements are still possible at 10 A (!), while the MR200CSP-E allows the measurement of 100,00 Ω at only 0.1 mA.

This makes it also fit for measuring thin, conductive layers, which might be destroyed if higher currents were used.



As a particular feature, the MR200CSP-E, like the BOUNDING TESTER, enables you to select different current levels in the individual ranges, which is not only necessary for performing different measuring tasks but also required by several international test regulations. Its thermoelectric force compensation, the quotient measurement, and the testing of all contacts, voltages and currents during the measurement, make long-term stable and highly accurate measurements possible:

Range	Current 1	Current 2	Current 3	Current 4
10 m Ω	100 mA	50 mA	-	-
100 m Ω	100 mA	50 mA	10 mA	-
1 Ω	100 mA	50 mA	10 mA	1 A
10 Ω	10 mA	5 mA	1 mA	-
100 Ω	1 mA	0,5 mA	0,1 mA	-

Features

- Selectable current of 0,1 mA to 1 A
- Measuring range from 10 m Ω – 100 Ω , decadic
- Overrange up to 80 %
- max. resolution of 1 $\mu\Omega$
- Display LED, 4 ½ digits
- Measuring error $\pm 0,05$ % of MV ± 1 Digit
- Measuring speed approx. 2 s
- Contact error detection prior to every single measurement

Questions?

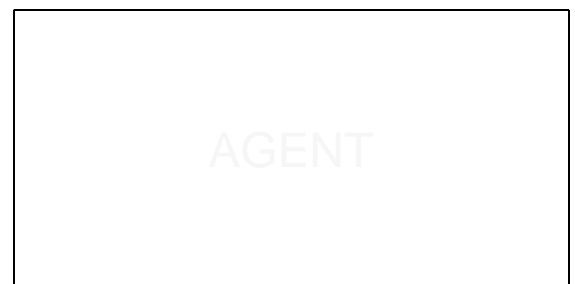
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Here you will get technical assistance as well as complete information regarding features, prices, shipment and reselling.

www.ohmmeter.de



MR 200 CSP-E

Technical Data

Resistance measurement

Range	10 mΩ – 100 Ω, decadic
Overrange	+80%, to 18000
Max. measurement error	± 0,05% from MV ± 2 digits
Current	0,1 A to 1 A, selectable
Range selection using keypad	
Display	LED, 4 ½ digits
Speed	approx. 2 measurements per second

Error detection prior to EVERY single measurement

Current connection errors	display: ‚CUR‘, RS232: ‚ECUR‘
Sense connection errors	display: ‚SEN‘, RS232: ‚ESEN‘
Overrange >80%	display: ‚OVL‘, RS232: ‚EOVL‘

Start of measurement

using keypad
via RS232 or IEEE - 488
via foot switch (optional)

Ports

RS232C (optional)
printer (optional)
start contact (potential free)

Dimensions Weight

260 x 150 x 350 mm (WxHxD)
approx. 8 kg

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Available enhancements

- **RS232C enhancement:**
enhances the MR200 CSP-E with a standard RS232 port
- **IEEE – 488 enhancement:**
control the instrument via IEEE – 488
- **Centronics printer interface:**
parallel printers can be connected directly to the instrument using this enhancement

Available accessories

- **Cable** several lengths, with Kelvin test prod and start button
- **Cable** several lengths, with Kelvin clamps
- **DKD – calibration certificate** from the ‚Deutscher Kalibrierdienst‘

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