

COPT



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DATA SHEET

4-Point-Probe

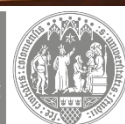
Jandel Engineering Ltd

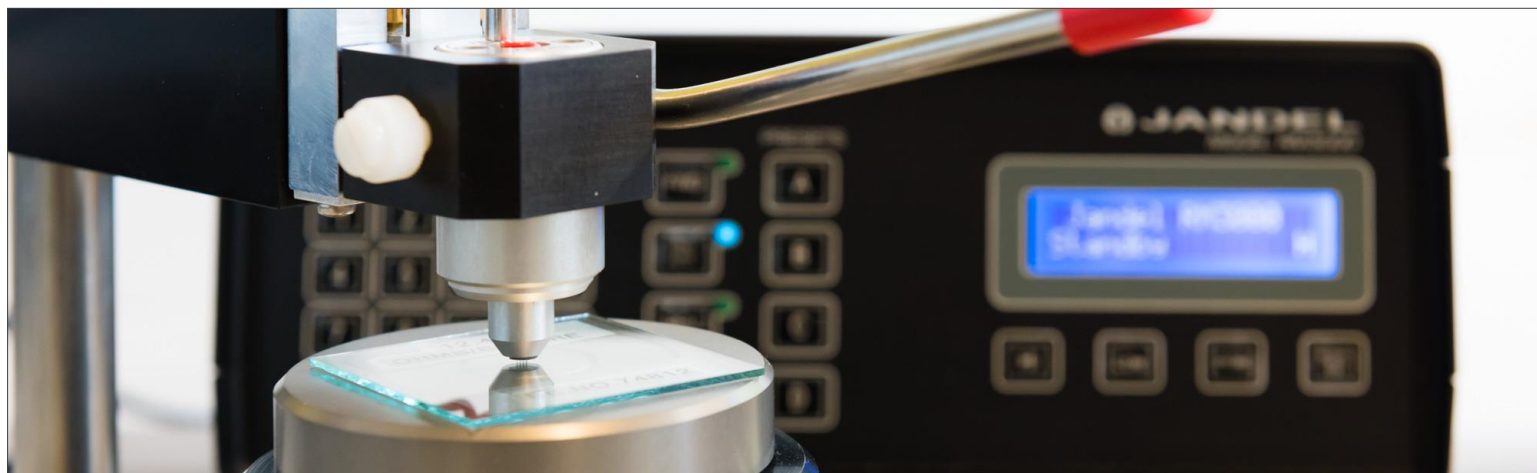
RM 3000



copt-zentrum.de

Universität
zu Köln





Technical Data

4-Point-Probe

Company

Jandel Engineering Ltd

Model

RM 3000

Measuring principle & needles:

Resistance measurements by using tungsten carbide contact needles (Ø 0.3 mm)

Distance between the contact needles:

0.5 ± 0.01 mm; linear arrangement

Radius of the needle tip:

100 µm

Spring loading:

60 – 150 g

Sample preparation:

25 x 25 mm to a max. of 7.6 cm in diameter;
Precise sample positioning with micrometer screws

Measurable surface resistance:

Up to $10^7 \Omega/\text{sq}$ (with metals: Layers < 1µm)

Voltage range:

0 – 150 mV (high resolution) und 0 – 1250 mV (low resolution)

Measuring step size from the voltmeter:

10 µV (voltmeter changes for measurements below 1mV)

Current range:

10 nA – 99.999 mA

Automatic regulation of the comparison voltage:

< 1 mA (max. 40 mV)
> 1 mA (max. 25 V)
10 mA (U unlimited to max. 0.5 W)

Special features:

The samples can be sucked by vacuum (upgrade required)