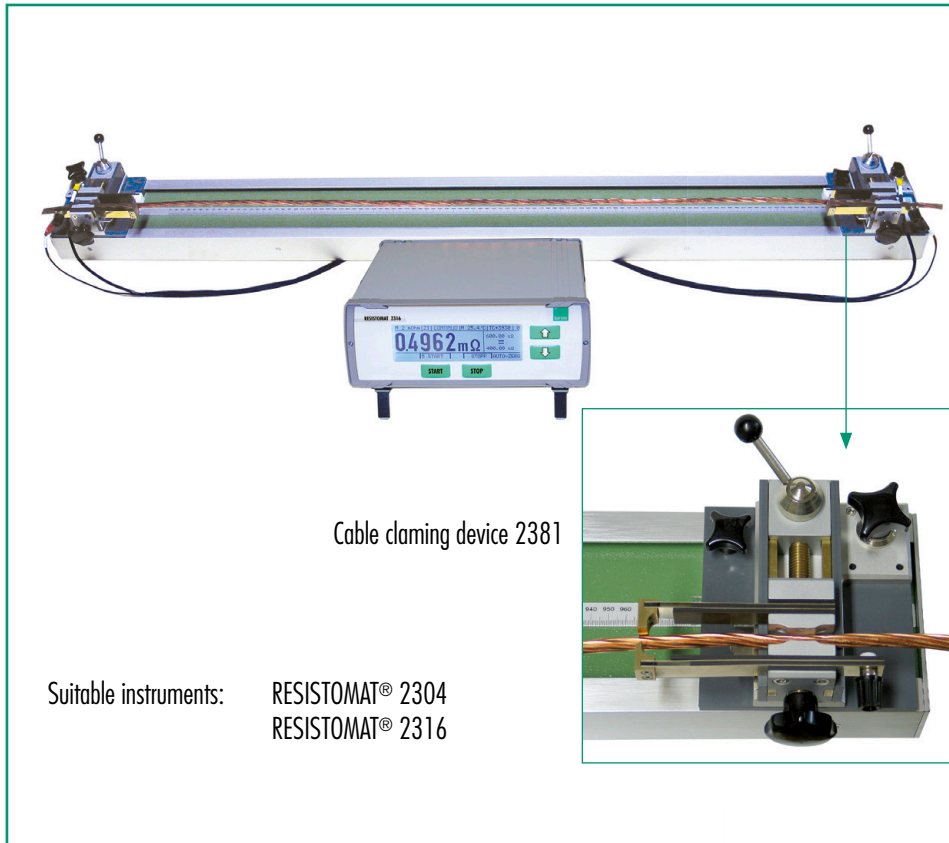


Measurement of meter samples in the cable industry

burster



Cable clamping device 2381

Suitable instruments: RESISTOMAT® 2304
RESISTOMAT® 2316

Contact

- ☎ +49-7224/645-19

Sector

- Cable industry

Product name

- RESISTOMAT® 2304 or 2316 with wire holding device 2381

Features

RESISTOMAT® 2316

- Measuring ranges
2.0000 mΩ ... 200.00 kΩ
- Measuring accuracy 0.03 % Rdg.
- Temperature compensation
for all materials

Clamping device 2381

- Cross sections 0.1 mm² ... 100 mm²
up to 2500 mm² possible
- Adjustable clamp support up to 1000 mm
measuring length

Task

Specification testing of copper, aluminium or brass wires

Specification Requirement

Several aspects must be considered when testing wires, such as

- contact in four-wire technology
- precise length determination
- temperature compensation of test objects

Copper has a temperature coefficient of about 0.4 %/K, this means if not considering the temperature at an ambient temperature of e.g. 30 °C, the measured value will be 4 % too large (based on 20 °C).

Solution

The combination of RESISTOMAT® 2316 and clamping device 2381 is ideally suited for wire cross-sections from 0.1 to 100 mm². With the adjustable clamp support the measuring length can be varied up to 1000 mm. Although only 500 mm can be measured, the RESISTOMAT® can still show the resistance in ohms per meter. Clamping devices for larger cross-sections up to 2500 mm² are also available.

