

## MICRO 200 Digital Micro-Ohmmeter

by



- 200 A dc 5 min
- 300 A max.
- Resistance -
- 1  $\mu\Omega$  up to 4  $\Omega$
- Resolution 0.1  $\mu\Omega$



The versatile COTEL **MICRO 200** is used for measuring the contact resistance of circuit breakers, sectionners or bus bar junctions, and also for checking railway locomotives. The measurement technique employs four wires so that the voltmeter terminals are separated from those of the current generator.

Test reports can be prepared using PC software or an optional printer.

The **MICRO 200** design is suitable for an HV substation. The current generator has a settable range from zero to 300 Amps in dc, and is capable of delivering 200 A dc for five minutes. The voltmeter measures voltages from zero to ten volts dc. The current, sensed voltage and the computed value of the resistance are displayed simultaneously.

The **MICRO 100** version delivers 100 Amps for five minutes or a max. of 200 Amps for 20 seconds and weighs only 15kg.

### Technical Characteristics

Robust IP 30 Flight Case

Dims 38.5 x 23.5 x 30 centimeters Weight 19 kg.

Supply—230 VAC  $\pm$  10% plus earth 50/60 Hz single phase max. power 1200 VA

Protection—for the 200A current injector by a front-face breaker

The 10A dc smoothed output is protected by an auto re-arming fuse.

Current Generator—The 200 A output current has a full-bridge rectifier.

It can give— 6 Vdc open circuit

4.9 Vdc max for 50 A continuous

3.3 Vdc max for 200 A for 5 minutes

2.9 Vdc max for 300 A for 20 seconds

The 10 A output current is filtered—ripple < 2% for 10 A into 0.5  $\Omega$

### Measurements

Voltage 3 ranges covering 0 to 10 V. Accuracy 0.5 %

Current 2 ranges on the 200 A output 0 to 70 & 70 - 300 A

1 range on the 10 A output 0 to 13 A

Accuracy 0.5 %

Resistance—Accuracy 2% of reading

5 display ranges— 0 to 999.9  $\mu\Omega$

1.0 to 9.999 m $\Omega$

10.0 to 99.99 m $\Omega$

100.0 to 999.9 m $\Omega$

1.0 to 4.0  $\Omega$

Options - 3, 5 & 10 m. length cable kits for current injection & measurement. Test shunt of 100  $\mu\Omega$  at 0.5%

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