

## RMO Series – Micro Ohmmeters

The RMO series of instruments are designed for contact resistance measurement of non-inductive test objects. Based on the most advanced switch mode technique available today, the RMO series of instruments generate a true DC ripple-free current with automatically regulated test ramps.

### RMO-A Series - Micro Ohmmeters

The RMO-A series models are the "entry level" of RMO devices, but not much less potent than the remaining series of the RMO devices. It includes six different models placed in metal housings. The main difference between these models is the maximum test current that can be generated.

#### RMO600A

- Lightweight - only 8 kg / 18 lbs
- Test currents 5 A - 600 A DC
- High output voltage 5,9 V @ 600 A DC
- Measuring range 0,1  $\mu\Omega$  - 999,9 m $\Omega$
- Typical accuracy  $\pm$  (0,1 % rdg + 0,1% F.S.)
- Best resolution 0,1  $\mu\Omega$
- Standalone / PC controlled (DV-Win Software)



### RMO-G Series – Micro Ohmmeter with Both Sides Grounded Feature

The RMO-G series includes seven models mounted in plastic housings. Comparing to RMO-A series, there are additional "Both Sides Grounded" and "Remote Control" features available as options.

#### RMO800G

- Lightweight – only 11,5 kg / 25 lbs.
- Test currents 10 A – 800 A DC
- Typical accuracy  $\pm$  (0,1 % rdg + 0,1% F.S.)
- Best resolution 0,1  $\mu\Omega$
- BSG (Both Sides Grounded) test mode
- Remote control feature (optional)
- Standalone / PC controlled (DV-Win Software)



### RMO-D Series – Micro Ohmmeter With Demagnetization Feature

The RMO-D series instruments are the most advanced version of RMO family of instruments. The additionally offered feature is the ability to perform fully automatic demagnetization of a current transformer core after the measurement. Demagnetizing a magnetic core requires alternating current to be applied with a magnitude decreasing down to zero. Using the proprietary solution design, the RMO-D series instruments provide the appropriate decreasing magnitude of DC current that alternates by internally changing its polarity.

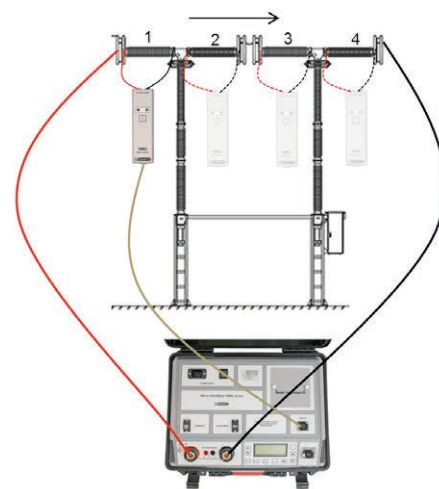
#### RMO600D

- Lightweight - only 11 kg / 24 lbs
- Powerful 5 A - 600 A DC
- Typical accuracy  $\pm$  (0,1 % rdg + 0,1% F.S.)
- Best resolution 0,1  $\mu\Omega$
- BSG (Both Sides Grounded) test mode
- Remote control feature (optional)
- Demagnetization feature
- Standalone / PC controlled (DV-Win Software)



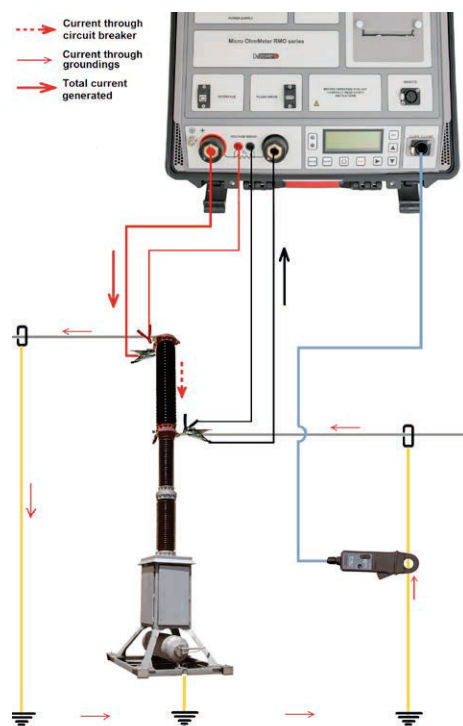
### Remote Control Unit

The figure on the right illustrates a connection of the instrument to a high voltage circuit breaker having both sides grounded. In order to remotely perform the measurements, the RMO-G and RMO-D devices are provided with the RMO Remote Control Unit. In addition, it enables multiple measurements to be performed with the same test current. This significantly speeds up the entire test procedure.



### Both Sides Grounded feature

HV circuit During the HV circuit breaker contact resistance measurement, to provide protection from the induced voltages, it is necessary to ground the circuit breaker at both sides. RMO-G and RMO-D series instruments have the possibility to perform measurements with both sides of a test object grounded. This will ensure the operator's safety and protect the instrument as well.



### Demagnetization feature

Demagnetization of a Current Transformer Core after DC Contact Resistance Measurement. After testing a circuit breaker or a bus-bar using DC current, the magnetic core of associated current transformers may remain magnetized (remanent magnetism). To eliminate this source of potential problems, demagnetization should be done using the feature this instrument provides as well.

