

# Transformer Testing Winding Ohmmeters & Analysers



**PACIFIC TEST**  
equipment



**Sonel MMR-650**



- Li-Ion Battery/mains powered 10 Amp micro-ohmmeter
- Suitable for measurement of winding resistance on small transformers & motors
- Winding discharge and de-magnetisation included
- Measures from  $0.1\mu\Omega$  to  $2000\Omega$
- Accuracy  $\pm 0.25\%$
- Up to 800 10A tests per charge



**DV/power**

**DV-Power  
RMO25/40/60TD**

- Choice of maximum test currents up to 25, 40 or 60 Amps
- Measures resistance of primary, tertiary and secondary windings simultaneously
- Measures from  $0.1\mu\Omega$  to  $10k\Omega$
- Accuracy:  $\pm 0.1\%$
- Temperature measurement channel
- On-load tap changer dynamic resistance measurement and tap changer motor current measurement
- Automatic discharge and de-magnetisation after test
- Full set of test leads and DV-Win software included

**DV-Power  
RMO40/60/100TT**

- Choice of maximum test currents up to 40, 60 or 100 Amps
- Measures resistance of primary, tertiary and secondary windings simultaneously
- Measures from  $0.1\mu\Omega$  to  $10k\Omega$
- Accuracy:  $\pm 0.1\%$
- 3 or 6 temperature measurement channels (model dependent)
- On-load tap changer dynamic resistance measurement and tap changer motor current measurement
- Automatic discharge and de-magnetisation after test
- Full set of test leads and DV-Win software included



**DV-Power TWA25A/40D**

- 3-phase - up to 6 winding resistance measurements with one connection
- Test current up to 25 Amps per phase
- 40 Amp 3-phase synchronisation test (TWA40D only)
- Measures from  $0.1\mu\Omega$  to  $10k\Omega$
- Accuracy:  $\pm 0.1\%$
- On-load tap changer dynamic resistance measurement and tap changer motor current measurement
- On-load transition time and ripple for each transition
- Simultaneous 3-phase Y-N resistance measurement (TWA40D only)
- Automatic discharge and de-magnetisation after test
- Full set of test leads and DV-Win software included

**Distributed and Serviced by:**

**Pacific Test Equipment Pty Ltd**

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# Transformer Testing

## Turns Ratio Measurement



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equipment



### AEMC 8510



- Single phase ratio measurement up to 8000:1
- Test voltage to 32V
- Excitation current up to 1 Amp
- Best accuracy 0.1%
- Displays turns ratio, excitation current, polarity and % deviation
- Test voltage up to 32V @ 70Hz
- NiMH battery powered with up to 10h continuous operation
- 90-240V mains charger with 4 h recharge.
- Memory for 10,000 tests with USB interface to DataView software
- 5m test leads included (10m optional)



**DV/power**

### DV-Power TRT03B

- Entry level 3-phase ratiometer
- Single phase supply sequentially applied to each phase (restricts use on some vector group transformers)
- Turns ratios to 50,000
- Test voltages from 10 to 100V
- Excitation current up to 2 Amps
- Best accuracy 0.05%
- Automatic Vector Group Detection
- Displays turns ratio, excitation current, % deviation & phase angle
- Magnetic balance test to help detect core problems
- Tap changer control
- Memory for 10,000 tests with USB interface to DV-Win software
- Test leads interchangeable with TWA series winding analysers

### DV-Power TRT30/33/63 series

- True 3-phase 120° test voltage applied to all 6 windings simultaneously
- Tests all vector group transformers
- Test voltages 10-100 (TRT30B) 1-100 (TRT33B) 1-250 (TRT63B)
- Turns Ratio to 50,000
- Excitation current up to 2 Amps
- Best accuracy 0.05% (TRT30/33) 0.03% (TRT63)
- Automatic Vector Group Detection
- Displays turns ratio, excitation current, % deviation & phase angle
- Magnetic balance test to help detect core problems
- Tap changer control
- Memory for 10,000 tests with USB interface to DV-Win software
- Test leads interchangeable with TWA series winding analysers



### DV-Power TRT100/400

- Latest 7" graphical touch screen control
- Test voltages from 1-170V (TRT100) 1-430V (TRT400)
- Best accuracy 0.05% (TRT100) 0.03% (TRT400)
- All other parameters as per TRT33/63

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