DV power

Product Catalog

Smart test devices for reliable electric power systems

Transformer

Test Equipment

Content

About Us

The brand “DV Power”, with headquarters in Stockholm (Sweden), has since 2000 developed light and ingenious test solutions for transformers, circuit breakers, batteries and electrical safety.

The company was founded by a group of engineers with **extensive** knowledge and experience in the power electronics technology area.

Today, our DV Power products are sold all over the world – in over 110 countries.

We remain committed to extensive research and development. Thanks to our customers who continuously provide us with valuable feedback and diverse case studies, we are able to design even better products that meet their needs.

Our success is solely based on extensive research, development and fast commercial application.

The IBEKO Power AB company is certified according to ISO 9001:2015 and ISO 14001:2015 standards.

About Transformer Test Equipment

DV Power test equipment covers solutions for testing power, distribution, instrument transformers, and rotating machines. With our products, it is possible to perform a wide range of tests for each group of equipment.

For power and distribution transformers two most essential tests are winding resistance and turns ratio. Besides these, our products can perform many other tests, such as frequency response, excitation current, vector group detection, on-load tap changer DVtest (DRM), demagnetization, and heat run test.

For instrument transformers (CTs, VTs, and CVTs) a variety of special tests can be performed (knee point, turns ratio, polarity, demagnetization, winding resistance, burden test, and insulation resistance).

For rotating machines, with DV-Power test equipment, the user can measure winding resistance with a wide range of testing currents for testing small to extra-large units.

All specifications herein are valid at an ambient temperature of + 25 °C and standard accessories. Specifications are subject to change without notice.

Transformer Test Equipment

● - Standard ○ - Optional

Description	TWA Advanced	TWA Standard	RMO-TT	RMO-TD	RMO-TW	TRT Advanced	TRT Standard	TWR-H	RMO-TH	TRT-H	DEM	TWR-250B	FRA500	CVA500
Transformer Winding Resistance IEC 60076-1, IEEE C57.152	●	●	●	●	●			●	●			●		
DVtest (DRM) – OLTC Analysis IEC 60214-1	●	●	●	●	●							●		
Heat Run Test IEC 60076-2	●	●	●	●	●							●		
OLTC Vibration Test	●		●											
Transformer Demagnetization	●	●	●	●	●			●	●		●	●		
Transformer Turns Ratio IEC 60076-1, IEEE C57.152						●	●	●		●		●		
Transformer Excitation Current IEEE C57.152						●	●	●		●		●		
Transformer Phase Angle Measurement						●	●	●		●		●		
Automatic Vector Group Detection IEC 60076-1						●	●					●		
Magnetic Balance Test						●	●					●		
Sweep Frequency Response Analysis IEC 60076-18, IEEE C57.149													●	
CT Knee Point IEC 60044-1, 61869-2, IEEE C57.13														●
CT, VT Turns Ratio IEEE C57.13						●	●	●		●		●		●
CVT Turns Ratio						○								●
CT, VT, CVT Polarity IEC 61869-1, IEEE C57.13						●	●	●		●		●		●
CT, VT, CVT Winding Resistance IEC 60044-1, 61869-2, IEEE C57.13	●	●	●	●	●			●	●			●		●
CT, VT, CVT Burden														●
CT, VT, CVT Insulation Resistance														●
CT Demagnetization IEEE C57.13	●	●	●	●	●			●	●		●	●		●

OLTC Analysis

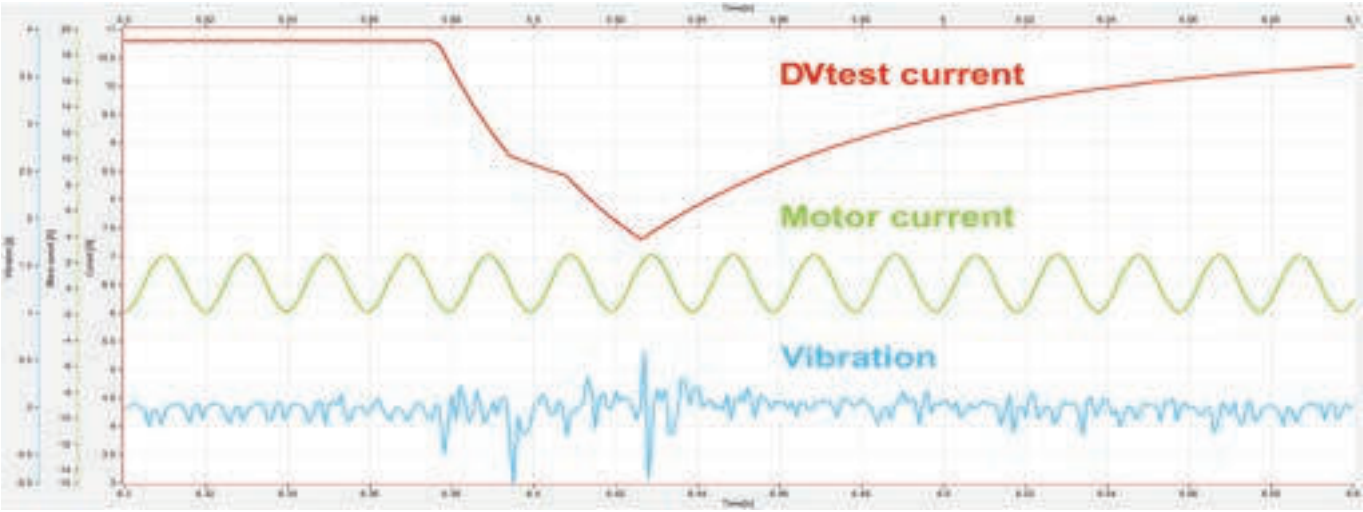
DVtest method (also known as Dynamic Resistance Measurement - DRM method) is an offline, non-destructive testing method for checking the condition of on-load tap changer (OLTC). It is based on a DC current being injected through a winding and an on-load tap changer (OLTC) as it moves through all of its positions. Also, OLTC motor current and OLTC vibration can be recorded simultaneously with the test current. DVtest provides useful information about an OLTC condition without the OLTC removal from the transformer main tank, which is an expensive and time-consuming job. The DVtest (DRM) graph pinpoints the exact location of defects indicated by elevated gas levels and can help prevent Buchholz relay operation, which could otherwise trip the transformer. This method is complementary to DGA (Dissolved Gas Analysis) method.

The AC and/or DC current monitoring channel and vibration monitoring channel enable recording the OLTC mechanical drive motor current and vibration during the OLTC operation. The motor current and vibration waveforms are plotted on the same DVtest (DRM) graph and can help in detecting OLTC mechanical problems. Motor current channel allows triggering DVtest recording using OLTC motor current, which is useful for reactance-type OLTCs.

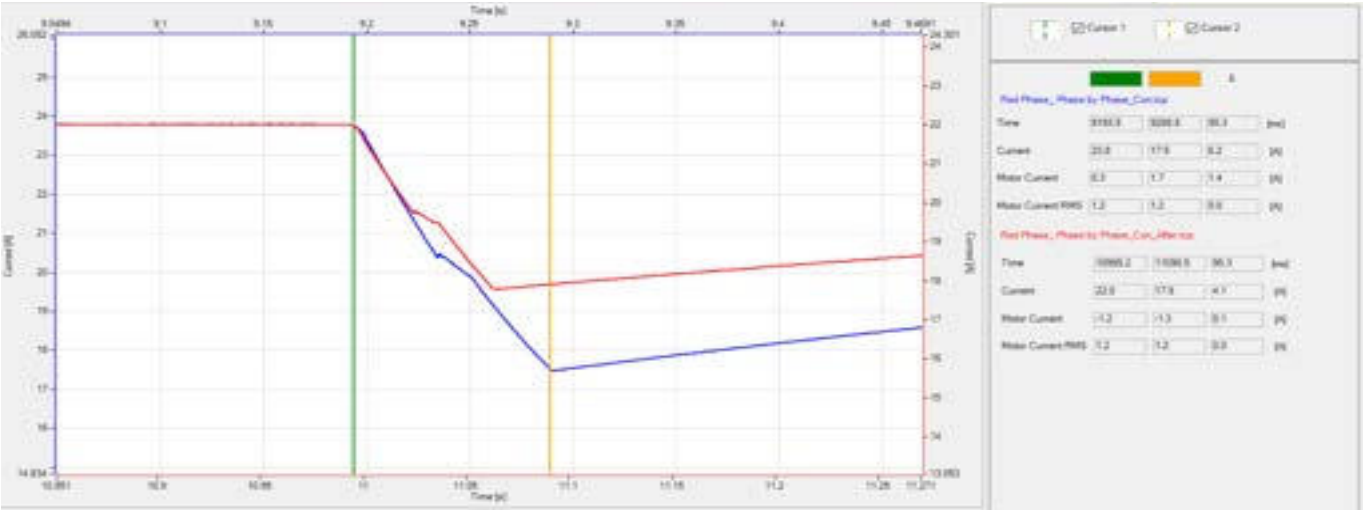
The DVtest graph irregularities can indicate the OLTC problems such as:

- High resistance contacts in the tap selector
- Loose contacts in the tap selector
- Burned, loose contacts in the diverter switch
- Broken resistors in the diverter switch
- Abnormal arcing
- Misaligned contacts
- Contact bounce
- Mechanical and motor problems
- Phase synchronization problems

Typical DVtest (DRM) graph with motor current and vibration signals



Comparison of two OLTC DVtest (DRM) graphs



Tap Changer and Transformer Winding Analyzers

TWA Advanced Series

Applications

- Three-phase winding resistance measurement
- DVtest (dynamic resistance measurement)
- Automatic demagnetization
- OLTC vibration testing
- Evaluation of OLTC synchronization between phases
- Measurement of OLTC motor current

Main Features of TWA500 (TWA500N-N-W3)

- Measurement range: 0,1 µΩ – 10 kΩ
- Typical accuracy: ± (0,1 % rdg + 0,1 % F.S.)
- One-time cable setup
- All 6 windings measured in one test
- Simultaneous measurement of HV and LV winding
- Fast measurement, enabled by special transformer saturation algorithms
- Automated test mode
- Special mode for simultaneous 3-phase measurement
- OLTC DVtest (dynamic resistance measurement)
- OLTC motor current monitoring channel
- Vibration testing of OLTC
- Rapid automatic demagnetization
- Automatic discharge circuit
- Built-in temperature measurement channel
- Interchangeable test leads with TRT Series
- Large 10.1 in graphical touch screen display

Main Features of TWA400 (TWA400N-N-01)

- Measurement range: 0,1 µΩ – 10 kΩ
- Typical accuracy: ± (0,1 % rdg + 0,1 % F.S.)
- One-time cable setup
- All 6 windings measured in one test
- Simultaneous measurement of HV and LV winding
- Fast measurement, enabled by special transformer saturation algorithms
- Automated test mode
- Special mode for simultaneous 3-phase measurement
- OLTC DVtest (dynamic resistance measurement)
- OLTC motor current monitoring channel
- Vibration testing of OLTC
- Rapid automatic demagnetization
- Automatic discharge circuit
- Built-in temperature measurement channel
- Interchangeable test leads with TRT Series
- Large 7 in graphical touch screen display

Tap Changer and Transformer Winding Analyzers

TWA Standard Series

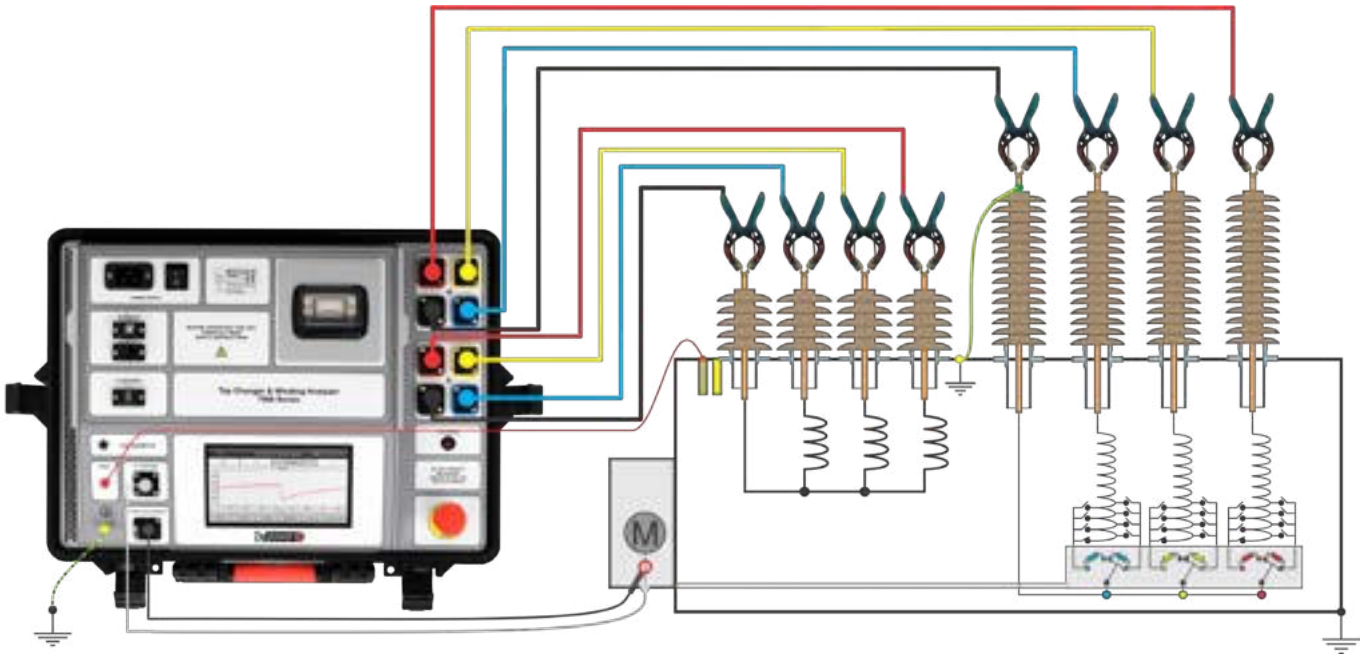
Applications

- Three-phase winding resistance measurement
- DVtest (dynamic resistance measurement)
- Automatic demagnetization
- Evaluation of OLTC synchronization between phases
- Measurement of OLTC motor current

Main Features of TWA40D (TWA40DN-N-03)

- Measurement range: 0,1 µΩ – 10 kΩ
- Typical accuracy: ± (0,1 % rdg + 0,1 % F.S.)
- One-time cable setup
- All 6 windings measured in one test
- Simultaneous measurement of HV and LV winding
- Fast measurement, enabled by special transformer saturation algorithms
- Automated test mode
- Special mode for simultaneous 3-phase measurement
- OLTC DVtest (dynamic resistance measurement)
- OLTC motor current monitoring channel
- Rapid automatic demagnetization
- Built-in temperature measurement channel
- Interchangeable test leads with TRT Series

Connection of TWA to a test object



Tap Changer and Transformer Winding Analyzers

TWA Models Comparison




● - Standard ○ - Optional

Model	TWA500	TWA400	TWA40D	TWA25A
Max. Test Current (Winding Res. Test)	25 A DC	25 A DC	25 A DC	25 A DC
Max. Test Current (OLTC Synchr. Test)	40 A DC	40 A DC	40 A DC	
Resistance Measurement Range	0,1 μΩ – 10 kΩ	0,1 μΩ – 10 kΩ	0,1 μΩ – 10 kΩ	0,1 μΩ – 10 kΩ
Typical Accuracy	± (0,1 % rdg + 0,1 % F.S.)	± (0,1 % rdg + 0,1 % F.S.)	± (0,1 % rdg + 0,1 % F.S.)	± (0,1 % rdg + 0,1 % F.S.)
DVtest	Via standalone device & DV-TR software	Via standalone device & DV-TR software	Via DV-TR software	Via DV-TR software
DVtest Sampling Rate [ms]	0,1	0,1	0,1	4
Simultaneous 3-Phase Winding Res. Test	Via standalone device & DV-TR software	Via standalone device & DV-TR software	Via DV-TR software	
3-Phase OLTC Synchronization Test	Via standalone device & DV-TR software	Via standalone device & DV-TR software	Via DV-TR software	
OLTC Motor Current Measurement	Via standalone device & DV-TR software	Via standalone device & DV-TR software	Via DV-TR software	
Automated Test Mode	Via standalone device & DV-TR software	Via standalone device & DV-TR software	Via DV-TR software	Via DV-TR software
“Heat Run” Test Mode	Via DV-TR software	Via DV-TR software	Via DV-TR software	Via DV-TR software
Demagnetization	●	●	●	●
OLTC Vibration Test	●	●		
Temp. Measurement Channels	1	1	1	1
Display	10.1 in graphical touch screen display	7 in graphical touch screen display	Backlit LCD	Backlit LCD
PC Communication	USB & Ethernet	USB & Ethernet	USB or RS232	USB or RS232
Built-In Printer		○		
Weight [kg]	15,9	15	12,8	12,8
Dimensions (W x H x D) [mm]	505 x 257 x 409	543 x 218 x 427	478 x 194 x 389	478 x 194 x 389

Tap Changer and Transformer Winding Analyzers

Accessories

H and X cables compatible with TWA and TRT series

Tap changer control cable

Temperature sensor

ICP accelerometer with connecting cable and mounting tools

Grounding cable

Transport case for 500 series

Cable plastic case - large size

Cable plastic case - medium size

Cable plastic case - small size

Cable plastic case with wheels - large size

Cable bag

TWA-TRT switchbox

Current clamp 30 / 300 A power supplied from the instrument

Bluetooth communication module

Test shunt 150 A / 150 mV

Tap Changer and Transformer Winding Analyzers

RMO-TT Series

Applications

- Three-channel winding resistance measurement
- “Heat run” test - hot spot temperature measurement
- Single-phase DVtest (dynamic resistance measurement) of OLTCs
- Single-phase automatic transformer demagnetization
- Measurement of OLTC motor current
- OLTC vibration testing

Main Features of RMO100TT (RMO100TT-N-1)

- Measurement range: 0,1 µΩ – 100 kΩ
- Typical accuracy: ± (0,1 % rdg + 0,1 % F.S.)
- Test current: 5 mA – 100 A DC (The most powerful portable winding ohmmeter on the market)
- Automated test mode
- OLTC DVtest (dynamic resistance measurement)
- OLTC motor current monitoring channel
- Rapid automatic demagnetization
- Automatic discharge circuit
- Vibration testing of OLTC
- Built-in tap changer control unit
- Four temperature measurement channels

RMO-TD Series

Applications

- Three-channel winding resistance measurement
- “Heat run” test - hot spot temperature measurement
- Single-phase DVtest (dynamic resistance measurement) of OLTCs
- Single-phase automatic transformer demagnetization
- Measurement of OLTC motor current

Main Features of RMO60TD (RMO60TD-N-03)

- Measurement range: 0,1 µΩ – 100 kΩ
- Typical accuracy: ± (0,1 % rdg + 0,1 % F.S.)
- Test current: 5 mA – 60 A DC
- OLTC DVtest (dynamic resistance measurement)
- Automated test mode
- OLTC motor current monitoring channel
- Rapid automatic demagnetization
- Automatic discharge circuit
- Built-in tap changer control unit
- One temperature measurement channel

Tap Changer and Transformer Winding Analyzers

RMO-TW Series

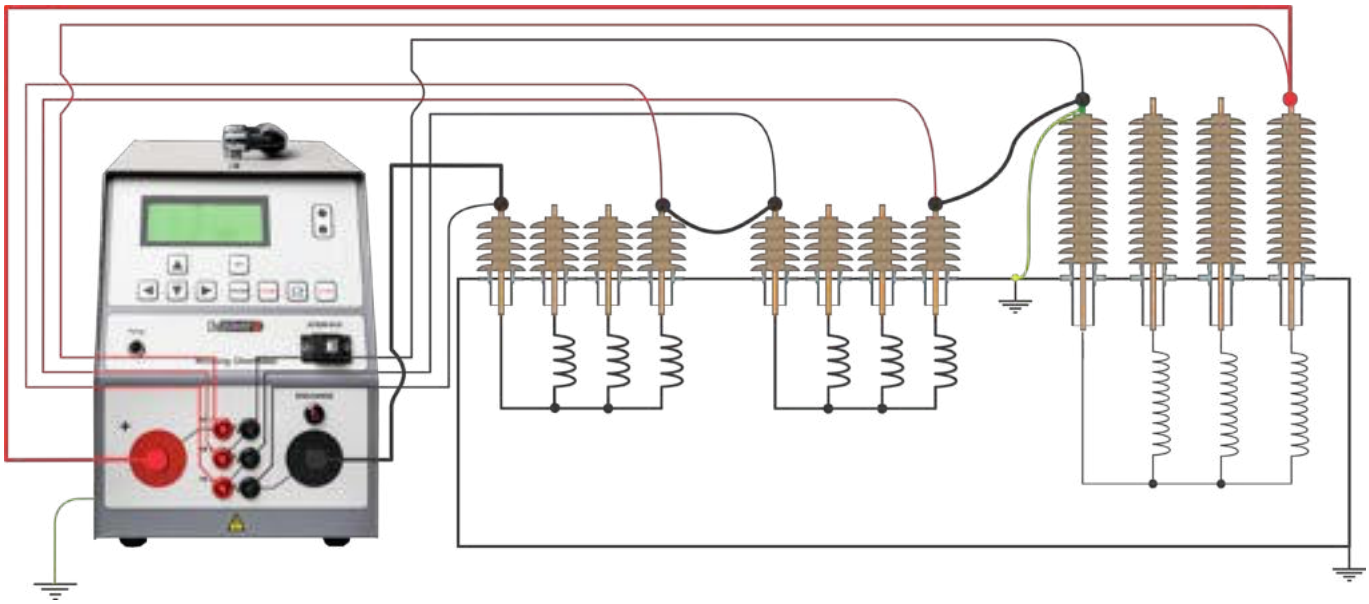
Applications

- Three-channel winding resistance measurement
- “Heat run” test - hot spot temperature measurement
- Single-phase automatic transformer demagnetization
- Detection of interruptions during the OLTC operation

Main Features of RMO50TW (RMO50TW-N-02)

- Measurement range: 0,1 μΩ – 100 kΩ
- Typical accuracy: ± (0,1 % rdg + 0,1 % F.S.)
- Test current: 5 mA – 50 A DC
- OLTC verification
- Automatic resistance measurement
- Rapid automatic demagnetization
- Automatic discharge circuit
- One temperature measurement channel

Connection of RMO-TW to a test object



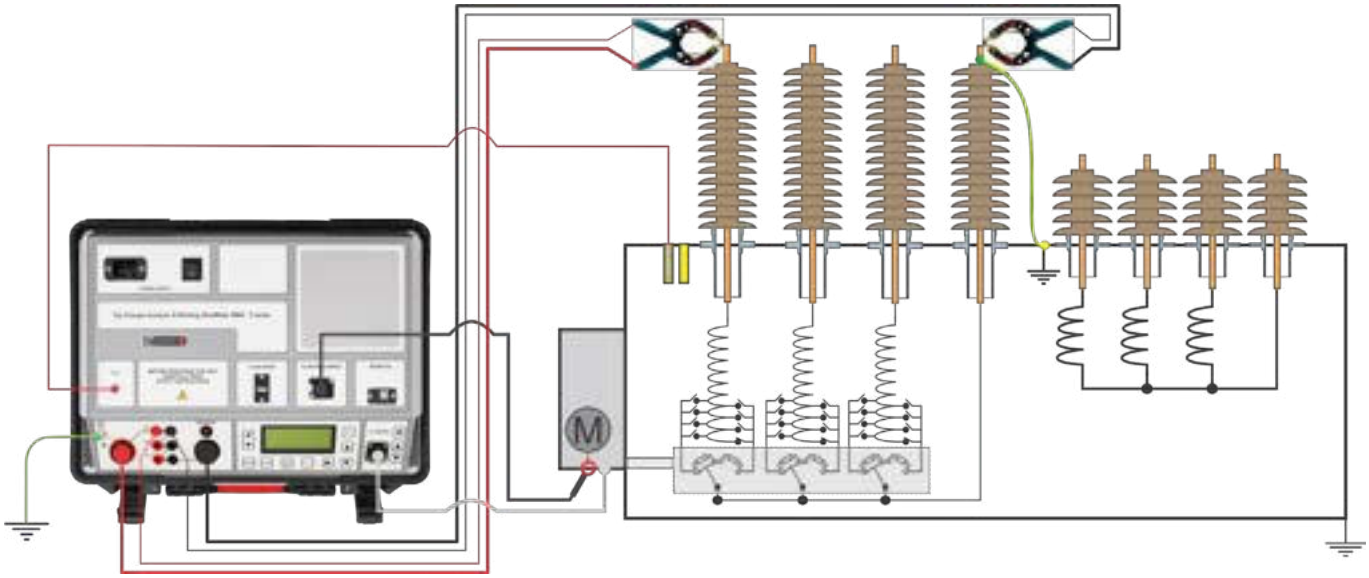
Tap Changer and Transformer Winding Analyzers

● - Standard ○ - Optional

Model	RMO100TT	RMO60TT	RMO40TT	RMO60TD	RMO40TD	RMO25 TD	RMO50TW	RMO30TW	RMO20TW	RMO10TW
Max. Test Current	100 A	60 A	40 A	60 A	40 A	25 A	50 A	30 A	20 A	10 A
Resistance Measurement Range (0.1μΩ – 100 kΩ)	●	●	●	●	●	●	●	●	●	●
Typical Accuracy ±(0.1rdg+0.1FS)	●	●	●	●	●	●	●	●	●	●
DVtest Sampling Rate [ms]	0,1	0,1	0,1	0,1	0,1	0,1	4	4	4	4
OLTC Motor Current Measurement	●	●	●	●	●	●				
Built-In TC Control Unit	●	●	●	●	●	●				
Automated Test Mode (Via DV-TR software)	●	●	●	●	●	●				
“Heat Run” Test Mode (Via DV-TR software)	●	●	●	●	●	●	●	●	●	●
Demagnetization	●	●	●	●	●	●	●	●	●	●
Auto Discharge	●	●	●	●	●	●	●	●	●	●
OLTC Vibration Test	●	●	●							
Temp. Measurement Channels	●	●	●	●	●	●	●	●	●	●
Built-In Printer	○	○	○	○	○	○	○	○	○	○
Weight [kg]	15,5	13,5	13,5	13,2	13,0	13,0	8,5	8,5	8,0	8,0

Tap Changer and Transformer Winding Analyzers

Connection of RMO-TD to the test object with the OLTC



Accessories

Current & sense cables with TTA clamps

Current & sense cables with TTA clamps

Current cables with TTA clamps

Current cables with battery clamps (B1)

Sense cables with TTA clamps

Current connection cable with battery clamps (B1)

Accessories

Current connection cable with TTA clamps

ICP accelerometer with connecting cable and mounting tools

Temperature sensor

Tap changer control cable

Grounding cable

Cable bag

Current clamp 30 / 300 A power supplied from the instrument

Test shunt 150 A / 150 mV

Cable plastic case - small size

Cable plastic case - medium size

Cable plastic case - large size

Cable plastic case with wheels - large size

Transformer Turns Ratio Testers

TRT Advanced Series

Applications

- Turns ratio measurement of single and three-phase transformers
- Excitation current measurement
- Phase angle measurement
- Automatic vector group detection
- Verification of demagnetization process
- Magnetic balance test
- Turns ratio and polarity verification of instrument transformers

Main Features of TRT500 (TRT500N-N-W3)

- Single-phase test voltages from 1 V to 500 V AC (in combination with CVT20 it can output up to 5 kV AC for testing capacitive voltage transformers)
- True three-phase test voltages from 1 V to 3 x 290√3 V AC
- Turns ratio range: 0,8 – 50 000
- Turns ratio resolution: 5 digits
- The best turns ratio accuracy: ± 0,03 %
- Large 10.1 in graphical touch screen display
- Built-in tap changer control unit
- Built-in thermal printer 112 mm (optional)
- PC communication: Ethernet and USB
- Interchangeable test leads with TWA Series

Main Features of TRT400 (TRT400N-N-03)

- Single-phase test voltages from 1 V to 430 V AC
- True three-phase test voltages from 1 V to 3 x 250√3 V AC
- Turns ratio range: 0,8 – 50 000
- Turns ratio resolution: 5 digits
- The best turns ratio accuracy: ± 0,03 %
- Large 7 in graphical touch screen display
- Built-in tap changer control unit
- Built-in thermal printer 58 mm (optional)
- PC communication: Ethernet and USB
- Interchangeable test leads with TWA Series

Transformer Turns Ratio Testers

TRT Standard Series

Applications

- Turns ratio measurement of single and three-phase transformers
- Excitation current measurement
- Phase angle measurement
- Automatic vector group detection
- Verification of demagnetization process
- Magnetic balance test
- Turns ratio and polarity verification of instrument transformers

Main Features of TRT63A (TRT63AN-N-03)

- Single-phase and true three-phase test voltages from 1 V to 250 V AC
- Turns ratio range: 0,8 – 50 000
- Turns ratio resolution: 5 digits
- The best turns ratio accuracy: ± 0,03 %
- Backlit LCD display
- Built-in tap changer control unit
- Built-in thermal printer 58 mm (optional)
- PC communication: USB or RS232
- Interchangeable test leads with TWA Series

TRT Models Comparison

● - Standard ○ - Optional

Model	TRT500	TRT400	TRT250	TRT100	TRT63	TRT33	TRT03
Max. Test Voltage	500 V	430 V	250 V	170 V	250 V	100 V	100 V
Sequential 3~	●	●	●	●	●	●	●
Simultaneous 3~	●	●	●	●	●	●	
Test Templates	●	●	●	●	●	●	
Cap. Voltage Transf. Testing	○						
Display	10.1 in touch	7 in touch	7 in touch	7 in touch	LCD	LCD	LCD
PC Interface	USB & Ethernet	USB & Ethernet	USB & Ethernet	USB & Ethernet	USB or RS232	USB or RS232	USB or RS232
Weight [kg]	10,5	9	9	9	9	8	8
Dimensions (W x H x D) [mm]	505 x 257 x 409	478 x 194 x 390	478 x 194 x 390	478 x 194 x 390	478 x 194 x 390	478 x 194 x 390	478 x 194 x 390

Transformer Turns Ratio Testers

Accessories

H and X cables compatible with TWA and TRT series

Tap changer control cable

Grounding cable

Bluetooth communication module

Transport case for 500 series

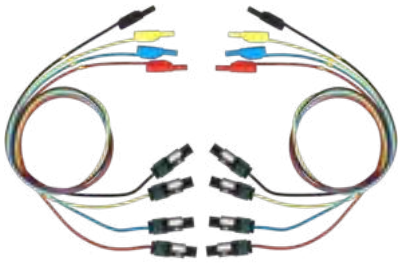
Cable plastic case - large size

Plastic Transport case - medium size

Cable bag

TWA-TRT switchbox

TRT-C verification calibrator



H & X winding test leads set for TRT-C

CVT20 extension transformer

H test cable set

X test cable set

High voltage cable set

Handheld Transformer Testers

Turns Ratio & Winding Resistance Tester - TWR-H

Applications

- Winding resistance measurement
- Demagnetization
- Turns ratio measurement
- Excitation current measurement
- Phase angle measurement

Main Features of TWR-H (TWRH000-N-01)

- Single-phase connection to a transformer
- Handheld device with internal battery (user-replaceable)
- Test current up to 2 A DC for HV side
- Test current up to 10 A DC for LV side
- Winding resistance measurement range: 1 µΩ – 3 kΩ
- Winding resistance measurement typical accuracy: ± (0,5 % rdg + 0,5 % F.S.)
- Test voltage up to 40 V AC
- Turns ratio measurement range: 0,8 – 20 000
- Turns ratio measurement typical accuracy up to ± 0,1 %
- Dimensions: 170 mm x 310 mm x 58 mm (6.69 in x 12.21 in x 2.28 in)
- Weight: 1,4 kg (3.1 lbs)

Turns Ratio Tester - TRT-H

Applications

- Turns ratio measurement
- Excitation current measurement
- Phase angle measurement

Main Features of TRT-H (TRTH000-N-02)

- Single-phase connection to a transformer
- Handheld device with internal battery (user-replaceable)
- Test voltage up to 40 V AC
- Turns ratio measurement range: 0,8 – 20 000
- Turns ratio measurement typical accuracy up to ± 0,1 %
- Dimensions: 170 mm x 310 mm x 58 mm (6.69 in x 12.21 in x 2.28 in)
- Weight: 1,4 kg (3.1 lbs)

Handheld Transformer Testers

Winding Resistance Tester - RMO-TH

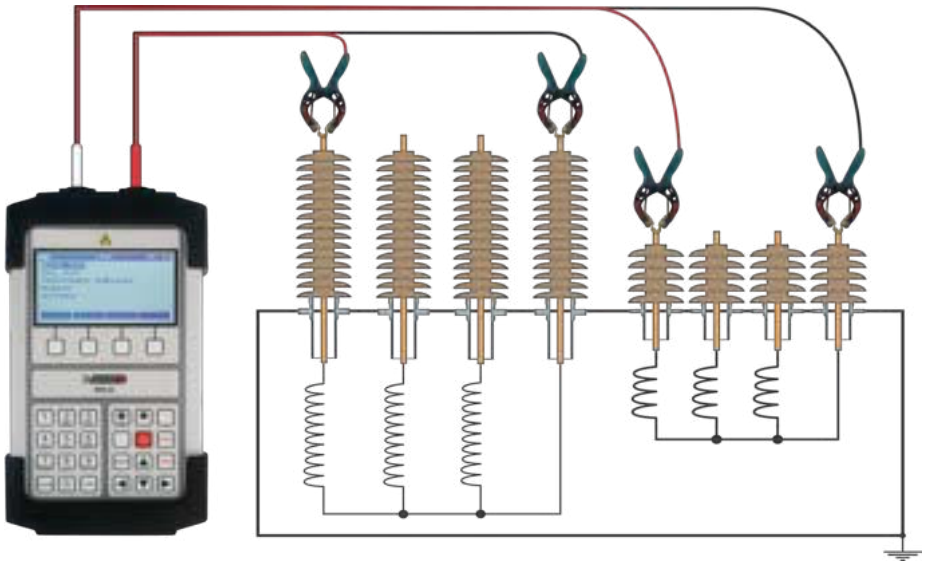
Applications

- Winding resistance measurement
- Demagnetization

Main Features of RMO-TH (RMOTH00-N-02)

- Single-phase connection to a transformer
- Handheld device with internal battery (user-replaceable)
- Test current up to 2 A DC for HV side
- Test current up to 10 A DC for LV side
- Winding resistance measurement range: 1 μΩ – 3 kΩ
- Winding resistance measurement typical accuracy: ± (0,5 % rdg + 0,5 % F.S.)
- Dimensions: 170 mm x 310 mm x 58 mm (6.69 in x 12.21 in x 2.28 in)
- Weight: 1,4 kg (3.1 lbs)

Connection of handheld tester to a test object



Handheld Transformer Testers

Accessories

H winding current and sense cables with small TTA clamps

X winding current and sense cables with small TTA clamps

Jumper cable with small TTA clamps

Test shunt 150 A / 150 mV

Cable bag

Plastic transport case

Turns Ratio and Winding Resistance Analyzer

Turns Ratio and Winding Resistance Analyzer - TWR250B

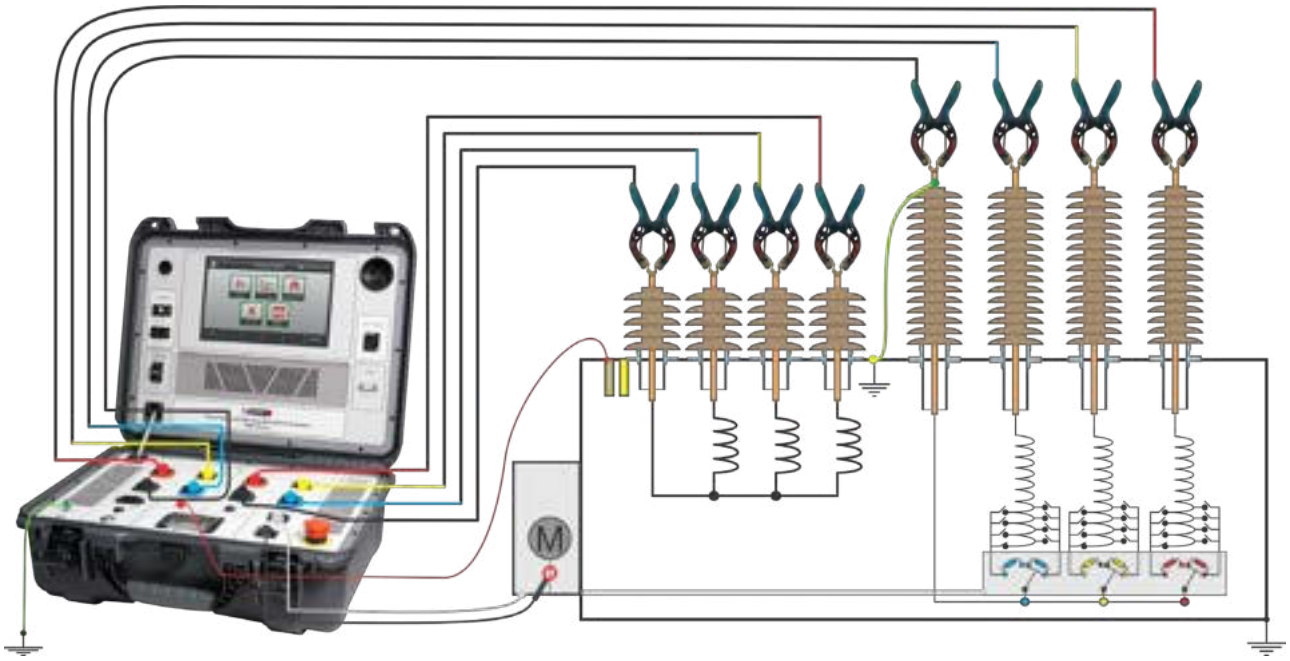
Applications

- Winding resistance measurement
- Demagnetization
- Turns ratio measurement
- Turns ratio deviation calculation
- Excitation current measurement
- Phase angle measurement
- Automatic vector group detection

Main Features of TWR250B (TWR250B-N-03)

- Multiple AC and DC tests on a three-phase transformer
- Test voltages up to 250 V AC
- Test currents up to 25 A DC
- Battery (built-in battery) or mains powered
- Large 10.1 in graphical touch screen display
- One-time connection to a three-phase transformer
- Built-in tap changer control unit
- Built-in thermal printer

TWR-250B on a test object



Turns Ratio and Winding Resistance Analyzer

Accessories

H and X winding test lead wit TTA clamps

Tap changer control cable

Current clamp 30/300A

Plastic transport case

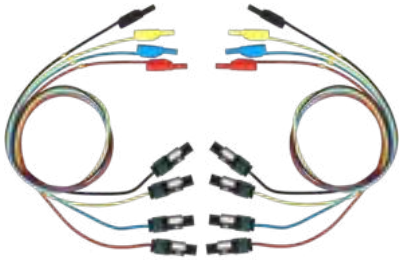
Cable plastic case with wheels - large size

Test shunt

Temperature sensor with cable

Safety strobe light

TRT-C verification calibrator



H and X winding test lead set with banana plugs

Cable bag

Sweep Frequency Response Analyzer

FRA500

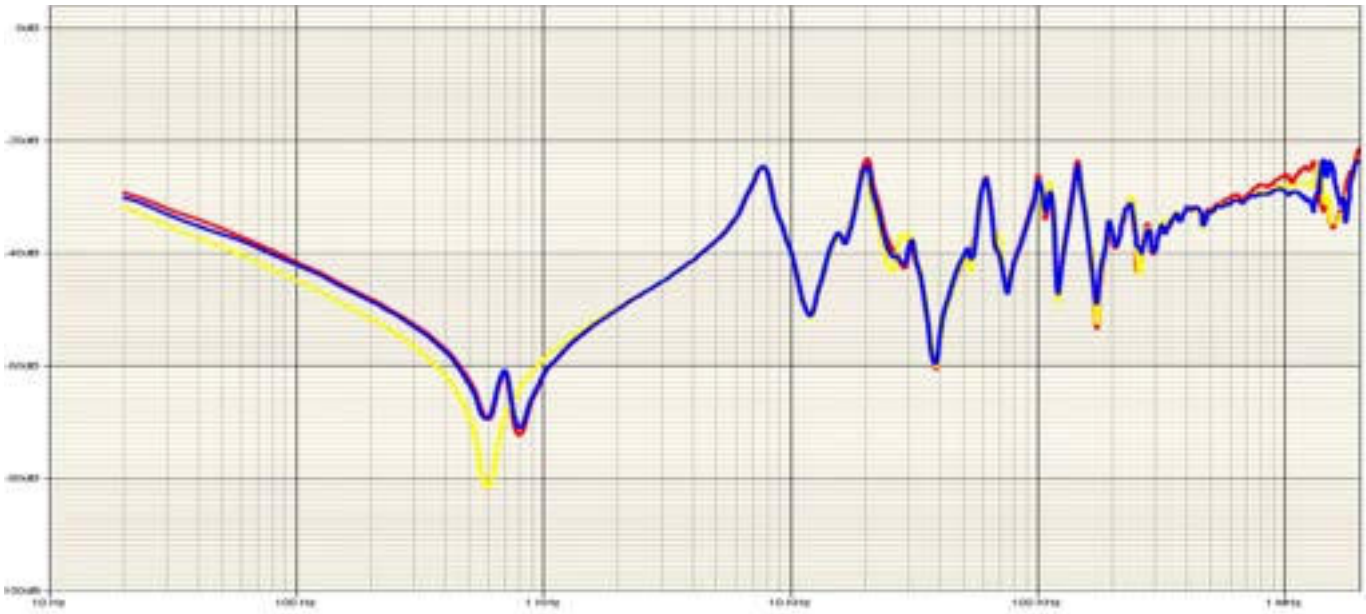
Applications

- Potential mechanical and electrical problems detection in power transformers
- Quick test where fingerprint is compared to a post-event response
- Reliable detection of the mechanical movements in transformers caused by earthquakes, transport, or mechanical impacts due to short-circuit forces after a failure

Main Features of FRA500 (FRA500X-N-03)

- Sweep frequency range: 0,1 Hz – 32 MHz
- Dynamic range: > 150 dB
- PC communication: USB and Bluetooth
- Battery backup (optional)
- Typical sweep time: < 20 s
- Superior frequency response in noisy environments
- Point spacing: log, linear, or both
- Sample points per sweep: 2 000 points per decade (32 000 points total)

Sweep frequency response analysis trace



Sweep Frequency Response Analyzer

Accessories

Large C-clamp

Small C-clamp

Coaxial signal cable - generator/reference

Coaxial signal cable - measure

Verification cell

Coaxial cable for verification cell

Flat ground cable

Ground cable with clip

Ground cable

Bluetooth adapter

Transport case

Multi-tap Current and Voltage Transformer Analyzer

CVA500

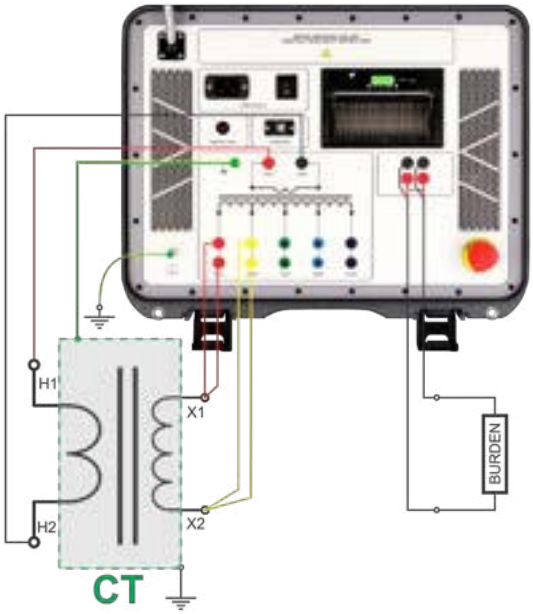
Applications

- Saturation curve and knee point of CTs
- Turns ratio, polarity, and phase angle tests of CTs, VTs and CVTs
- Demagnetization of CTs
- Insulation resistance of CTs, VTs and CVTs
- Winding resistance of CTs, VTs and CVTs
- Burden test of CTs, VTs, and CVTs

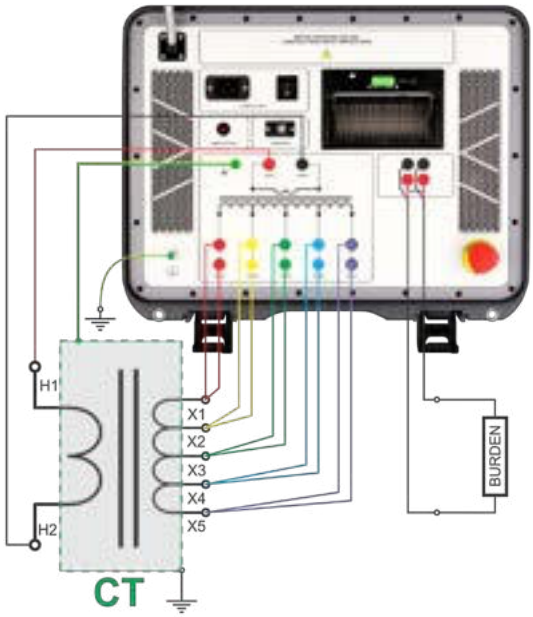
Main Features of CVA500 (CVA500X-N-W3)

- Solution for testing CTs, VTs, and CVTs
- Multi-tap CTs testing with a single-step cable setup
- Full range of CT tests performed automatically
- Variable test voltage up to 2 kV
- Tests using nominal frequency 50 or 60 Hz
- Test voltage up to 1 kV DC for insulation resistance test
- CT burden test with currents up to 5 A
- VT/CVT burden test with voltage up to 110 V
- Turns ratio accuracy up to ± 0,02 %
- Knee point voltage accuracy up to ± 0,05 %
- Winding resistance accuracy up to ± (0,2 % rdg + 2 mΩ)
- Insulation resistance accuracy up to ± (3 % rdg + 0,2 per GΩ)
- 10.1 in touch screen display
- Built-in thermal printer 112 mm (4.4 in)
- Dimensions: 505 mm x 257 mm x 409 mm (19.9 in x 10.1 in x 16.1 in)
- Weight: 21.4 kg (47.2 lbs)

Connection of CVA500 to a single-tap CT



Connection of CVA500 to a multi-tap CT



Multi-tap Current and Voltage Transformer Analyzer

Accessories

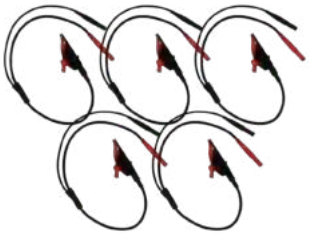
Transport case for 500 series

Primary side cables set with banana plugs

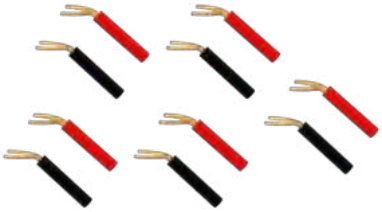
TTA clamps with banana plugs (red and black)

Dolphin clips (red and black)

Secondary side cables set with banana plugs

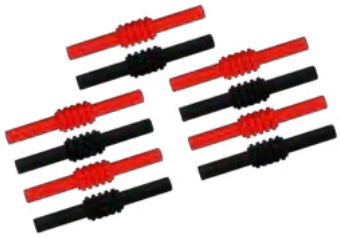


Secondary side cables set with dolphin clips (Kelvin)



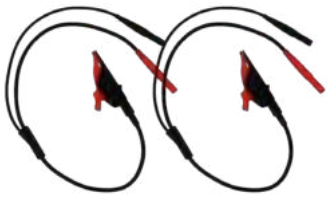
Cable lug adapter set

Flex wire adapter set



Cable coupler set

Grounding cable set with dolphin clip



Burden cables set with dolphin clips (Kelvin)

Ground cable

Cable bag

Safety strobe light with cable

Transformer Demagnetizer

DEM Series

Applications

- Demagnetization

Main Features of DEM60R (DEM60RX-N-03)

- Fully automatic demagnetization
- Calculation of remanent magnetism
- Demagnetization currents up to 60 A DC
- Demagnetization progress graph
- Three-phase connection to a transformer
- Automatic discharge circuit

Accessories

Current cables with TTA clamps

Mains power cable EU 16 A

Grounding cable

Bluetooth communication module

Cable bag

Cable plastic case - large size

RMO-M series provides winding resistance measurement of inductive test objects such as electrical motors and generators. Using the RMO-M series, it is possible to reduce the testing time by measuring the resistance of up to three windings simultaneously. For accurate measurement, a four-point Kelvin method is used. Instruments generate a true DC ripple-free current (up to 300 A) with an automatically regulated measurement and discharging circuit.

Motor & Generator Test Equipment

Motor & Generator Winding Analyzer

RMO-M Series

Applications

- Resistance measurement of low voltage inductive loads (rotating machines)
- Detection of winding problems (open winding, turn-to-turn short, phase-to-phase short, bad solder joints)
- Three-channel winding resistance measurement
- Resistance measurement of resistive test objects
- Power circuit testing

Main Features of RMO300GM (RMO300M-N-03)

- Measurement range: 0,1 μΩ – 999,9 mΩ
- Typical accuracy: ± (0,1 % rdg + 0,1 % F.S.)
- Test current: 5 A – 300 A DC (The most powerful portable DC winding resistance tester for rotating machines)
- Phase-to-phase resistance measurement
- Simultaneous measurement of all phases
- Automatic discharge circuit
- One temperature measurement channel

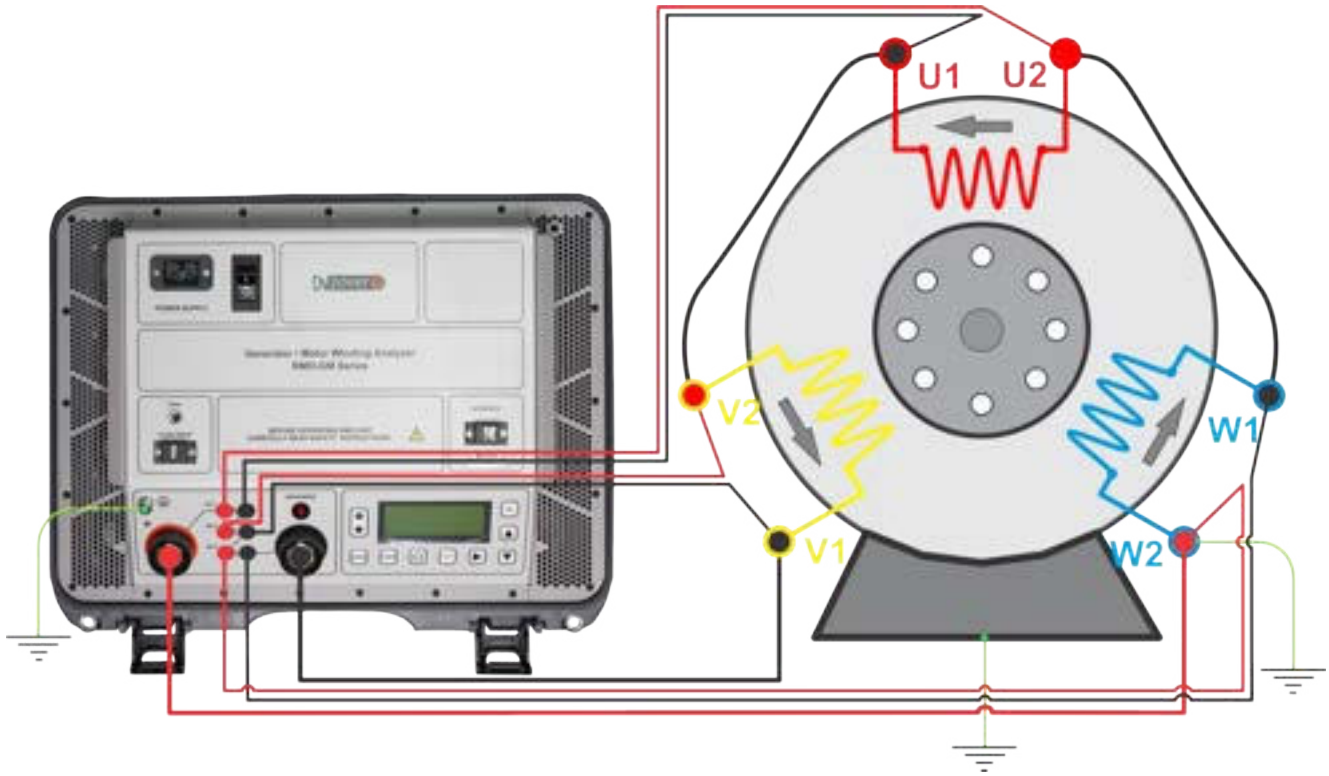
● - Standard ○ - Optional

Model	RMO300GM	RMO100M	RMO50M
Test Current	5 A – 300 A	5 mA – 100 A	5 mA – 50 A
Resistance Measurement Range	0,1 μΩ – 999,9 mΩ	0,1 μΩ – 1,0 kΩ	0,1 μΩ – 1,0 kΩ
Typical Accuracy	± (0,1 % rdg + 0,1 % F.S.)	± (0,1 % rdg + 0,1 % F.S.)	± (0,1 % rdg + 0,1 % F.S.)
No. of Temperature Channels	1	1	1
Auto Discharge	●	●	●
USB Flash Drive	●		
Display	Backlit LCD	Backlit LCD	Backlit LCD
PC Communication	USB or RS232	USB or RS232	USB or RS232
Built-In Printer		○	○
Dimension (W x H x D) [mm]	503 x 406 x 193	198 x 250 x 350	198 x 250 x 350
Weight [kg]	14,6	8,0	8,0

Motor & Generator Winding Analyzer

Connection of RMO-GM

Connection of RMO-GM on three phase test objects



Motor & Generator Winding Analyzer

Accessories

Current cables with alligator (A4) clamps

Current cables with battery (B1) clamps

Current & sense cables with TTA clamps

Sense cables with alligator clamps (A2)

Sense cables with TTA clamps

Current connection cable with battery (B1) clamps

Test shunt 600 A / 60 mV

Transport bag

Cable plastic case - medium size

Postal Address

IBEKO Power AB
Lejonstigen 9
181 32 Lidingö
Sweden

DV Power Inc. (US office)

311 Altamonte Commerce Blvd, Unit 1618
Altamonte Springs, FL 32714
USA

E-mail

sales@dv-power.com
support@dv-power.com
USAsupport@dv-power.com

Support Contact

Local Support (Scandinavia)
+46 8 731 78 24

Germany
+49 175 101 01 78

Asia, Africa, Australia, Europe and Middle East Support
+46 70 092 50 00

Latin America Support
+46 70 009 21 46

USA and Canada (Toll Free number)
+1 800 599 8113

DV Power Inc. (US office)
+1 407 714 1722

WhatsApp
+46 70 092 50 00