

OMICRON Products and Solutions



TAILORED TESTING AND MONITORING SOLUTIONS





Infrastructure















By choosing OMICRON, you do not decide to simply buy a product.
You also gain a partner with a stable corporate philosophy and independent funding to support you with passion and energy throughout the entire life cycle of your OMICRON product, and beyond.





Research & manufacturing







Generation















IEC 61850 testing and cyber security



Measurement equipment testing



Data and maintenance management



Power transformer testing and monitoring



Instrument transformer testing



Circuit breaker/ switchgear testing



Motor/generator testing and monitoring



Partial discharge analysis and monitoring



Cable testing and monitoring



Transmission line testing



Grounding system testing











Protection and recloser control testing

Multi-phase test set



CMC 500 Modular, multi-phase protection relay test set and commissioning tool

Get to know the CMC 500



omicron.energy/cmc500-links

3-phase test sets



CMC 430 Ultra-portable high-precision protection test set and calibrator



CMC 310 Test set for basic threephase testing

Recloser control test set



ARCO 400 Universal test set for recloser controls

1-phase test set



COMPANO 100 **Battery-operated primary** injection, secondary injection and basic protection test set

Digital substation test set



CMC 850 Dedicated IEC 61850 protection test set for digital substations

























Operation



Test Universe PC software suite for advanced secondary testing with CMC test sets

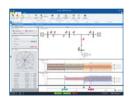


PTL
Creation of specific test
templates which adapt
automatically to the actual relay
settings



Management

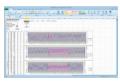
ADMO Maintenance management solution for protection systems



RelaySimTest Software for system-based protection testing with CMC test sets and ARCO 400



CMControl P Intuitive control option for simple manual testing with CMC test sets



CMEngine Programming interface for controlling CMC test sets with user-specific software

Planning



Time Grading Software for easy creation of time grading schedules





IEC 61850 testing and cybersecurity in energy systems

IEC 61850 testing solutions



StationScout
Software for a clear overview
and automated testing of
Substation Automation
Systems



IEDScout Software for analyzing IEC 61850 IEDs. Available for PC, MBX, RBX and VBX



Cybersecurity solutions

StationGuard
Software for functional
security monitoring, asset lists,
and intrusion detection for
IEC 61850 and IEC 104



Test Universe Software suite for advanced secondary testing on CMC test sets



RelaySimTest
Software for testing
protection systems with
Sampled Values and GOOSE



GridOps Central management system for StationGuard with vulnerability and asset management



DANEO Control Software for simultaneous analysis of GOOSE, Sampled Values and analog/binary signals



























Software-independent platforms for StationGuard, StationScout and IEDScout



RBX
Permanently installed 19-inch
platform for cybersecurity and
testing applications



MBX
Mobile and DIN rail mountable
platform for cybersecurity and
testing applications



VBX Virtual machine platform for cybersecurity and testing applications

Test sets



DANEO 400
Measurement and recording device for analyzing signals and network traffic with DANEO Control



CMC family
Versatile protection testing
using GOOSE, Client/Server
(MMS) and Sampled Values



CMC 850 Dedicated IEC 61850 protection test set for digital substations

Accessories



CPC 100 Universal primary test set with the ability to receive IEC 61850 Sampled Values



EMCON 200 PTP transparent Ethernet media converter powered by PoE



OTMC 100p Antenna integrated PTP grandmaster clock for the use in Substation Automation Systems



TICRO 100
Device for synchronization
of non-PTP equipment to
the PTP grandmaster of an
IEEE 1588/PTP infrastructure



Testing of meters, transducers and power quality meters

3-phase test set



CMC 430 Ultra-portable high-precision protection test set and calibrator

Operation



Test Universe Software suite for advanced secondary testing on CMC test sets



CMControl P Intuitive control option for simple manual testing with CMC test sets

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CMEngine Programming interface for developing user-specific test software for CMC test sets

Multi-phase test set



CMC 500 Modular, multi-phase protection relay test set and commissioning tool

Management



ADMO Convenient asset and testing management



Data and maintenance management

























ADMO



ADMO is an easy-to-use database software for central planning and management of all testing and maintenance activities for protection systems in the power industry.

Modules for ADMO



InSight

The ADMO dashboard processes the asset and maintenance data available in ADMO and displays it using widgets.



Test Set Management

Enables you to add the test sets you use for your maintenance tasks, store test set specific data, schedule test set calibration, and keep track of repair events.



Time Grading

This module supports you in creating your time grading schedules.

Primary Test Manager (PTM)



The Primary Test Manager (PTM) software supports you during diagnostic tests on circuit breakers, current and voltage transformers, rotating machines, grounding systems, power transformers as well as associated equipment such as bushings and on-load tap changers (OLTC).

A high-performance database ensures that the installed equipment and the associated test plans can be managed easily. With the module "PTM DataSync", you can synchronize your database to a central server in order to share and consolidate important asset information company-wide.



Power transformer testing and monitoring



TESTRANO 600 Three-phase test system for all common conventional tests on power transformers



TESTRANO 600 + CP TD12 Three-phase test system expanded for dissipation/power factor measurements



CPC 100 Universal primary injection test system for electrical diagnostics on various assets



CPC 100 + CPTD12/15 Universal test system expanded for dissipation/ power factor measurements



FRANEO 800 Sweep frequency response analyzer (SFRA) for core and winding diagnosis



DIRANA
Dielectric response analyzer
for moisture determination
in oil-paper insulations



CT Analyzer Current transformer test system, e.g. for bushing current transformers



MPD 800 Universal partial discharge (PD) measurement and analysis system



UHF 800 Ultra-high frequency (UHF) partial discharge measurement and analysis system



























MONTESTO 200
Portable on-line partial
discharge measurement and
temporary monitoring system



TANDO 700 High-precision test system for dissipation/power factor and capacitance measurements



Acoustic partial discharge

localization test system

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PDL 650

CPC Sync
Portable HV source for partial
discharge and voltage withstand
tests on dry-type transformers



Primary Test Manager Software for testing and management of primary assets





Instrument transformer testing



CT Analyzer Current transformer test and calibration system



VOTANO 100 Voltage transformer test and calibration system



CPC 100 Universal primary injection test system for electrical diagnostics on various assets



COMPANO 100
Portable primary and secondary injection and basic protection test set



DIRANA
Dielectric response analyzer
for insulation condition
assessment



CPC 100 + CPTD12/15 Universal test system expanded for dissipation/ power factor measurements



MPD 800 Universal power discharge measurement and analysis system



TANDO 700 High-precision test system for dissipation/power factor and capacitance measurements



Primary Test Manager Software for testing and management of primary assets



Circuit breaker/ switchgear testing



























CIBANO 500 + CB MC2 + CB TN3 Circuit breaker test system for timing, micro-ohm and motion tests with integrated power supply



CPC 100
Universal primary injection
test system for electrical
diagnostics on various assets



CPC 100 + CPTD12/15 Universal test system expanded for dissipation/ power factor measurements



COMPANO 100 Basic test set, e.g. for singlephase timing tests



CT Analyzer Current transformer test and calibration system, e.g. for GIS current transformers



CPC 100 + CP RC Voltage withstand test on GIS with power voltage transformer



Primary Test Manager Software for testing and management of primary assets



UHF 800 Ultra-high frequency (UHF) partial discharge measurement and analysis system



PARADIMO 100 Ultra-high-frequency partial discharge monitoring system for GIS and GIL



Motor/generator testing and monitoring



CPC 100 Universal primary injection test system for electrical diagnostics on various assets



CPC 100 + CP TD15 + CP CR600 Universal test system expanded for dissipation/power factor measurements, incl. high-voltage source



MONTESTO 200
Portable on-line partial
discharge measurement and
temporary monitoring system



MPD 800 Universal power discharge measurement and analysis system



MONGEMO Partial discharge monitoring system for rotating machines



Primary Test Manager Software for testing and management of primary assets



TANDO 700 High-precision test system for dissipation/power factor and capacitance measurements



DIRANA
Dielectric response analyzer
for insulation condition
assessment

Partial discharge analysis and monitoring



























MPD 800 Universal power discharge measurement and analysis system



UHF 800 Ultra-high frequency (UHF) partial discharge measurement and analysis system



MONTESTO 200 Portable on-line partial discharge measurement and temporary monitoring system



MONCABLO
Permanent on-line partial
discharge monitoring system
for high-voltage cables



MONGEMO Partial discharge monitoring system for rotating machines



PARADIMO 100 Ultra-high-frequency partial discharge monitoring system for GIS and GIL



Cable testing and monitoring



CPC 100 + CP CU1 Universal test system expanded for impedance and k-factor measurements



MPD 800 Universal power discharge measurement and analysis system



UHF 800 Ultra-high frequency (UHF) partial discharge measurement and analysis system



TANDO 700 High-precision test system for dissipation/power factor and capacitance measurements



MONTESTO 200 Portable on-line partial discharge measurement and temporary monitoring system



MONCABLO Permanent on-line partial discharge monitoring system for high-voltage cables





Transmission line testing



























CPC 100 + CP CU1 Universal test system expanded for impedance, k-factor and mutual coupling measurements



Grounding system testing



CPC 100 + CP CU1 + HGT1 Universal test system expanded for ground impedance, and step and touch voltage measurements



COMPANO 100 + HGT1
Basic test set for ground impedance, and step and touch voltage measurements in small stations

Continuous software maintenance and upgrades

More than 200 software developers ensure our software tools stay up-to-date in the long term.



Safe operation

We use state-of-the-art technology for a maximum level of security: guided workflows, simple wiring concepts, fiber-optical connections, safety accessories, manuals in many languages.

long-term reliability

Time-saving solutions

Our solutions help you to reduce your testing time with test templates, one-button-tests, automated test procedures and reduced wiring efforts.



Large investments in R&D

We invest over 15% of our annual sales in R&D to continually set groundbreaking standards in our industry.



Run-in tests for every device

Assembled devices pass high-voltage tests as well as an environmental test where the device is exposed to



100% routine testing

We test each individual component and module prior to assembling.



All our devices are produced in Austria and Germany and guarantee highest quality during production. Our suppliers are long-term partners in the region.

Compliance with international standards

We are compliant with ISO 9001, ISO 14001, OHSAS 18001, TÜV and EMAS.



Training centers

Make use of the hands-on training possibilities in our well-equipped training centers all around the world and become familiar with both the asset and the product.

knowledge at your fingerties

OMICRON Academy

Broaden your knowledge in customized on-site training, more than 300 training courses and free webinars. Benefit from expert trainers, high-quality training material and from exchanging experiences with other students.



Expert knowledge from standard committees

Get the latest information from standard committees by our experts.



Exchange with peer users and industry experts and learn about the latest technological trends at OMICRON events worldwide.



Knowledge library

Receive free access to a huge user network (over 15,000 people) and thousands of interesting papers and application notes.

Rental devices

Benefit from our rental device offer when you are in need of a device.





Reach one of our highly qualified and experienced support engineers - immediately and directly via our technical support hotline. Benefit from our global support network with extensive product and application knowledge -24 hours, 7 days a week.

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Asia-Pacific:	+852 3767 5500
India:	+91 11 3057 5429
Australia:	+61 3 9473 8400 1 800 223 177 (toll free)



Support whenever you need to support when you We deal with repair and calibration services in a cost-effective and non-bureaucratic manner.

Worldwide network

Get local support around the world thanks to 25 offices and our worldwide Sales Partner network.

Engineering services Benefit from our experts'

knowledge for consulting, testing and diagnostics.

Our vision

We innovate with passion.

We create the best place to work.

We change the world for the better.

Aboutus

Where it all began



Unfortunately, we lost
Rainer in a tragic accident
in 2009, but his philosophy
still inspires our company
culture: we believe in a work
setting that entrusts each
member of our team with
a lot of responsibility. The
diverse backgrounds, nationalities and experiences of
our colleagues are seen as
a fertile ground on which
ideas can flourish.

Our working practices encourage team-work and open communication among colleagues and with our customers. An atmosphere of mutual co-operation encourages people to share their ideas, thoughts and opinions. We feel inspired by being able to find new answers that address our customer's unique challenges and requirements.

In this way, we have been able to create an exciting and motivational environment in which we develop our innovative products and services. »Create an environment with no artificial limits where a team of excellent members can reach an excellent performance and enjoy working (having fun) together at the same time. This team should get its recognition for providing the best solutions to the customers.«

Rainer Aberer, founder of OMICRON

today ne ...

... have more than 1250 employees from 59 different nations.



... operate 23 offices worldwide.



... are proud of having customers in over 170 countries.



... invest a fixed share of our annual profit into social projects dedicated to support underprivileged children. ... have transferred our ownership into the OMICRON trust, a legal entity, which provides a stable basis for the company's long-term development.





OMICRON is an international company that works passionately on ideas for making electric power systems safe and reliable. Our pioneering solutions are designed to meet our industry's current and future challenges. We always go the extra mile to empower our customers: we react to their needs, provide extraordinary local support, and share our expertise.

Within the OMICRON group, we research and develop innovative technologies for all fields in electric power systems. When it comes to electrical testing for medium- and high-voltage equipment, protection testing, digital substation testing solutions, and cybersecurity solutions, customers all over the world trust in the accuracy, speed, and quality of our user-friendly solutions.

Founded in 1984, OMICRON draws on their decades of profound expertise in the field of electric power engineering. A dedicated team of more than 1250 employees provides solutions with 24/7 support at 23 locations worldwide and serves customers in more than 170 countries.



