

OMICRON Products and Solutions



TAILORED TESTING AND MONITORING SOLUTIONS

Protection and
recloser control
testing

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

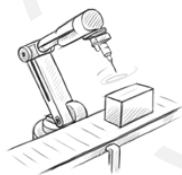
Partial discharge
analysis and
monitoring

Cable testing
and monitoring

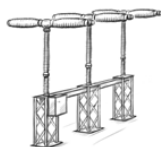
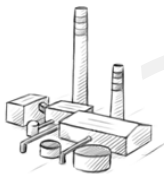
Transmission
line testing

Grounding
system testing

Research & manufacturing



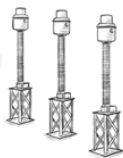
Industry



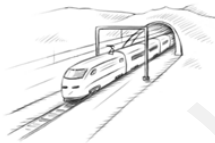
Generation



Transmission & distribution



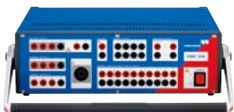
Infrastructure





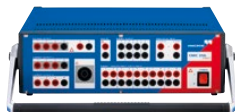
Protection and recloser control testing

6-phase test sets



CMC 356

Universal relay test set and commissioning tool



CMC 256plus

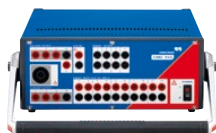
High-precision test set and calibrator

3-phase test sets



CMC 430

Ultra-portable high-precision protection test set and calibrator



CMC 353

Compact and versatile three-phase relay test set



CMC 310

Test set for basic three-phase testing

Recloser control test set



ARCO 400

Universal test set for recloser controls



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

Planning



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



Time Grading
Software for easy creation of time grading schedules





IEC 61850 testing and cyber security 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 and the cyber-secure MBX1 test set



DANEO Control

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



SVScout

Software for visualizing IEC 61850 Sampled Values



Test Universe

Software suite for advanced secondary testing on CMC test sets



RelaySimTest

Software for testing protection systems with Sampled Values and GOOSE

Cyber security solutions



StationGuard

Functional security monitoring system for detecting intrusions and cyber threats in IEC 61850 substations





Test sets



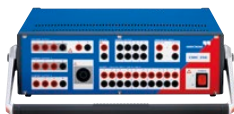
RBX1
Permanently installed 19-inch platform for StationGuard, StationScout and IEDScout



MBX1
Test set for testing Substation Automation Systems with StationScout and IEDScout



DANE0 400
Measurement and recording device for analyzing signals and network traffic with DANE0 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



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

Accessories



EMCON 200
PTP transparent Ethernet media converter powered by PoE



ISIO 200
Binary I/O extension for StationScout and flexible IED for converting binary I/Os to IEC 61850



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

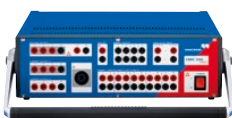


TICRO 100
Device for synchronization of non-PTP equipment to the PTP grandmaster of an IEEE 1588/PTP infrastructure



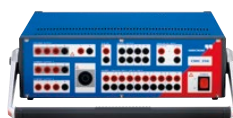
Testing of meters, transducers and power quality meters

6-phase test sets



CMC 256plus

High-precision test set and calibrator



CMC 356

Universal secondary 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



ADMO

Convenient asset and testing management



CMEngine

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



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 + CP TD12/15

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



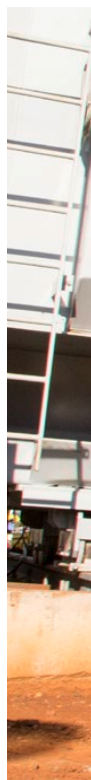
CT Analyzer

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



MPD 800

Universal partial discharge (PD) measurement and analysis system





PDL 650

Acoustic partial discharge localization test 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



CPC 80 + CP TD12/15

Dedicated dissipation/power factor test system



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 + CP TD12/15

Universal test system expanded for dissipation/power factor measurements



CPC 80 + CP TD12/15

Dedicated dissipation/power factor test system



TANDO 700

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



MPD 800

Universal power discharge measurement and analysis system



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 + CP TD12/15

Universal test system expanded for dissipation/ power factor measurements



CPC 80 + CP TD12/15

Dedicated dissipation/power factor test system



COMPANO 100

Basic test set, e.g. for single-phase 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





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



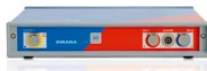
Primary Test Manager

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

**PDL 650**

Acoustic partial discharge localization test 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





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



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

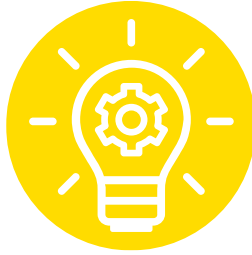


COMPANO 100 + HGT1

Basic test set for ground impedance, and step and touch voltage measurements in small stations



**Innovation &
reliability**



Quality



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.

Knowledge



Support



Learn more





Run-in tests for every device

Assembled devices pass high-voltage tests as well as an environmental test where the device is exposed to temperature changes for 72 hours.

100% routine testing

We test each individual component and module prior to assembling.

Made in Austria and Germany

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.

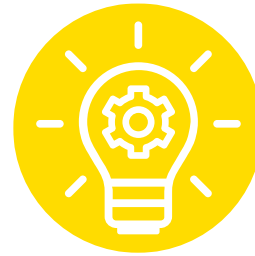
Quality for your lasting success

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.



Innovation and long-term reliability

Large investments in R&D

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

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.

24/7 technical support

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.

Americas:	+1 713 830 4660 +1 800-OMICRON
Europe / Middle East:	+43 59495 4444
Asia-Pacific:	+852 3767 5500
India:	+91 11 3057 5429
Australia:	+61 3 9473 8400 1 800 223 177 (toll free)

Rental devices

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



Repair and calibration

We deal with repair and calibration services in a cost-effective and non-bureaucratic manner.

Engineering services

Benefit from our experts' knowledge for consulting, testing and diagnostics.

Worldwide network

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

Support whenever you need it

Knowledge at your fingertips

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.

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.



User meetings, seminars and conferences

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.

Today we ...

... have more than
1000 employees from
59 different nations.



... operate
25 offices
worldwide.



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



... have transferred our
ownership into the OMICRON
trust, a legal entity, which
provides a stable basis for
the company's long-term
development.



... invest a fixed share of
our annual profit into social
projects dedicated to support
underprivileged children.



About us

Our vision

We innovate
with passion.

We create the best
place to work.

We change the
world for the better.

Where it all began

OMICRON was founded in 1984 by Rainer Aberer who had a special vision for his company.

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

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 900 employees provides solutions with 24/7 support at 25 locations worldwide and serves customers in more than 160 countries.

We continuously strive to improve our solutions, and we are always eager to work on groundbreaking innovations. For example, our intrusion detection system StationGuard has set new standards in the field of cybersecurity and with the help of smart textiles, our ANGEL system has been designed to make significant contributions to workplace safety.

