CMControl P

Simple testing of protection and measurement devices
with CMC test sets

Simple testing of protection and me

CMControl P is a control option for CMC test sets, specially designed for the quick manual testing of protection and measurement devices.

Due to its intuitive user interface setting up tests is easy and convenient. Output values are adjusted manually while the included test tools with integrated fault models guarantee quick tests and reliable results. The innovative user guidance offers easy operation even without special training.

CMControl P is available as an App for Windows PC or Windows tablets and as a dedicated front panel control device.

The test tools provide a wide range of functions:

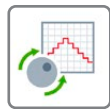Wiring Check is used to verify the wiring between the test set and the device under test

In Direct mode all of the test set's outputs can be controlled individually

Trip times or other timings of a protective relay can be verified with the Time tool

Time Characteristics is designed to test relays with multiple timing stages or particular characteristics

Pick Up/Drop Off allows thresholds of protective relays to be checked

The Meter test tool is used to calibrate electricity meters and to perform start-up and no-load tests

With the Reclosure tool the number of cycles and cycle times of an auto-reclosure function can be checked

The Transducer test tool is used to verify and automatically assess the accuracy of a transducer [1]

With Multimeter the multifunctional inputs of the CMC test set can be used for analog measurements [1]

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[1] With CMC 430, CMC 256plus, CMC 256-6, or CMC 356 with ELT-1 hardware option

Your benefits

> Simple and fast testing with innovative user guidance
> Runs on Windows PCs or Windows tablets and on the dedicated front panel control unit
> Reduced testing efforts, increased productivity
> Flexible working positions
> No special training required

www.omicronenergy.com/cmcontrol-p
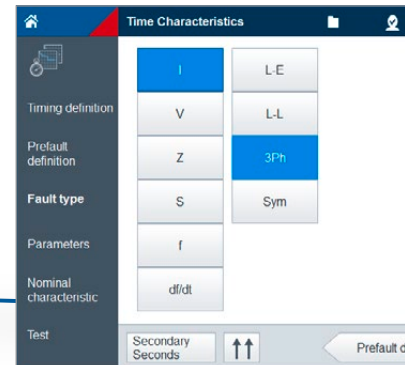
Innovative user guidance

Example: Set up and perform overcurrent characteristics tests
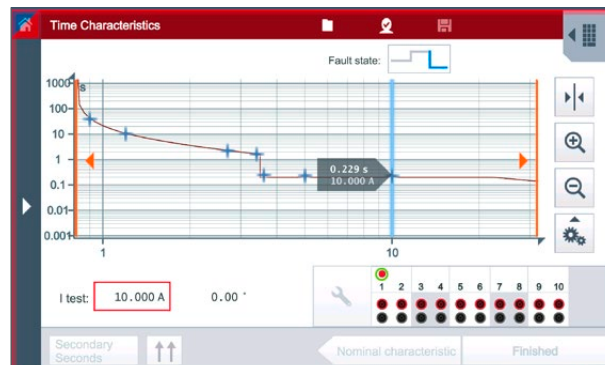
Tool selection
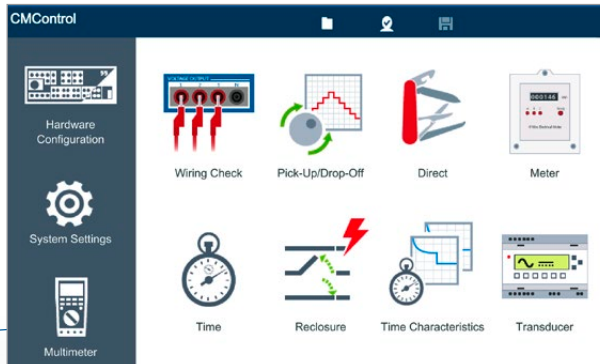
Simply touch the corresponding icon in the main menu.

Fault type setting

Test screen

Perform multiple test shots at different output values. The results can be easily compared with the relay's nominal characteristic.
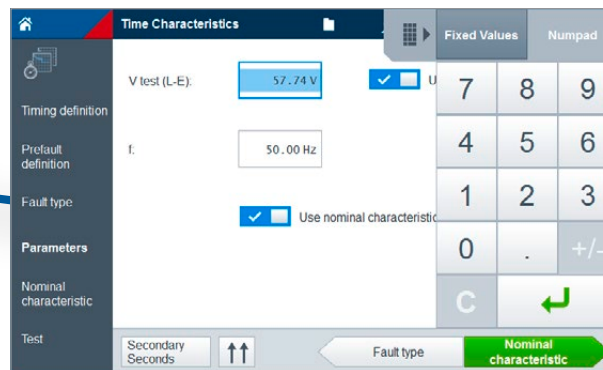
Applications

Protection relay testing

> Overcurrent
> Undervoltage
> All types of directional functions
> Distance

> Differential
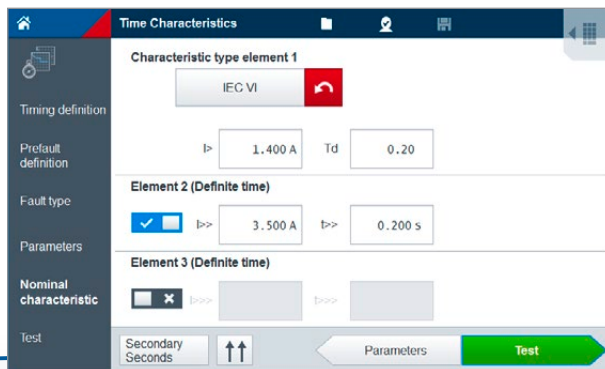> Reclosure
> Circuit breaker simulation

Select the fault type in an intuitive and logical way. Impedances, power values, and frequencies as well as symmetrical components, can be entered directly.

Parameter setting

Set the fault parameters easily with the numeric keypad. It is also possible to store and recall preset values.

Nominal characteristic

Specify the relay's nominal characteristic to be used as a reference. Choose from inverse and definite time characteristics. (Available for fault types I L-E, I L-L and I 3Ph)

Substation commissioning

> Checking SCADA annunciations
> Wiring checker
> Plausibility check for CT/VT with primary injection

Measurement device testing

> Meter
> Transducer

Operating options

CMControl P App

The CMControl P App runs on a standard Windows PC or Windows tablet to control your CMC test set. A dedicated mini Wi-Fi USB adapter enables wireless control of CMC test sets.[1]

Benefits

> No cables required through WiFi connection
> Flexible handheld operation with Tablet
> High versatility with Windows PC
> Integrated user manual
> Store and display test results on device

CMControl P front panel control

The CMControl P front panel control is a specially designed control option for CMC test sets even under rough conditions. It offers instant availability for quick manual testing.

Benefits

> Dedicated and rugged CMC accessory
> Touch screen display with outstanding readability
> Adjust output values easily using the precision control wheel
> Flexible handling and convenient working positions
> Magnetic rear makes the device attachable to steel surfaces
> Store test results on USB memory stick

[1] Requires a CMC test set with NET-2 interface board.
   Wi-Fi is subjected to technical and legal constraints. For more information please contact your local OMICRON office or sales partner.

Ordering information

CMControl P is available in different options and packages to meet your individual needs. Please find a list of all ordering options below.

	CMControl P App	CMC[1] + CMControl P App	CMC[1] + CMControl P	CMControl P retrofit
CMC 500	-	-	-	-
CMC 430		P0005881	-	-
CMC 356		P0000805	P0000973	P0006256
CMC 256plus	P0000344	P0000709	P0005868	P0006256
CMC 353		P0000695	P0005871	P0006257
CMC 310		P0005873	P0005872	P0006257

[1] Without Test Universe

# We create customer value through …

Quality

We always want you to be able to rely on our testing solutions. This is why our products have been developed with experience, passion and care and are continually setting ground-breaking standards in our industry sector.

ISO 9001 CE

You can rely on the highest safety and security standards

Superior reliability with up to

72 %
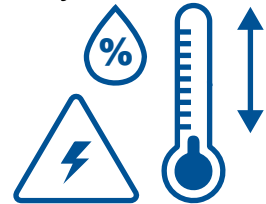
hours burn-in tests before delivery

100 %

routine testing for all test set components
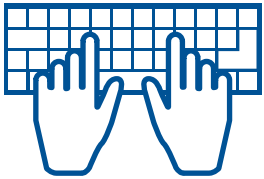
ISO 9001
TÜV & EMAS
ISO 14001
OHSAS 18001

Compliance with international standards

Innovation

Thinking and acting innovatively is something that's deeply rooted in our genes. Our comprehensive product care concept also guarantees that your investment will pay off in the long run – e.g. with free software updates.

I need...

... a product portfolio tailored to my needs

More than

200

developers keep our solutions up-to-date

More than

15%

of our annual sales is reinvested in research and development

Save up to

80%

testing time through templates, and automation

We create customer value through ...
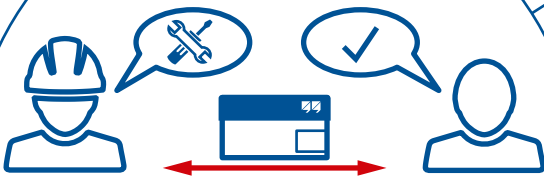
Support

When rapid assistance is required, we're always right at your side. Our highly-qualified technicians are always reachable. Furthermore, we help you minimize downtimes by lending you testing equipment from one of our service centers.

24 7

Professional technical support at any time

Loaner devices help to reduce downtime

Cost-effective and straight-forward repair and calibration

22

offices worldwide for local contact and support

Knowledge

We maintain a continuous dialogue with users and experts. Customers can benefit from our expertise with free access to application notes and professional articles. Additionally, the OMICRON Academy offers a wide spectrum of training courses and webinars.

More than

300

Academy and numerous hands-on trainings per year

Frequently OMICRON hosted user meetings, seminars and conferences

Free access

to thousands of technical papers and application notes
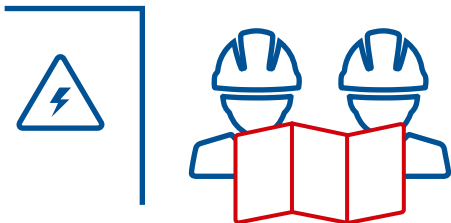
Extensive expertise in consulting, testing and diagnostics

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 22 locations worldwide and serves customers in more than 170 countries.

For more information, additional literature, and detailed contact information of our worldwide offices please visit our website.