Datasheet

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 Android tablets and as a dedicated front panel control device.

asurement devices

OMICRON

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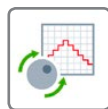
In **Direct** mode all of the test set's outputs can be controlled individually

Trip times or other 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]

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

Your benefits
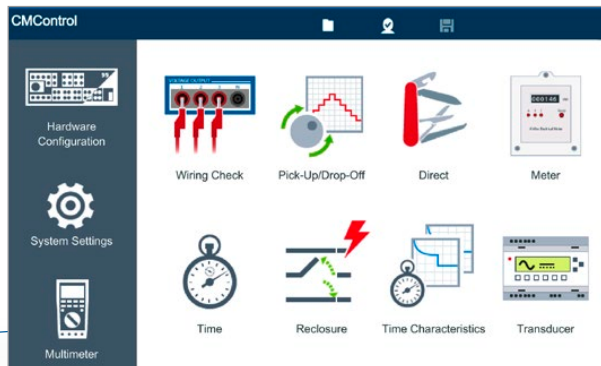
> Simple and fast testing with innovative user guidance
> Runs on Windows & Android devices and on the dedicated front panel control unit
> Reduced testing efforts, increased productivity
> Flexible working positions
> No special training required

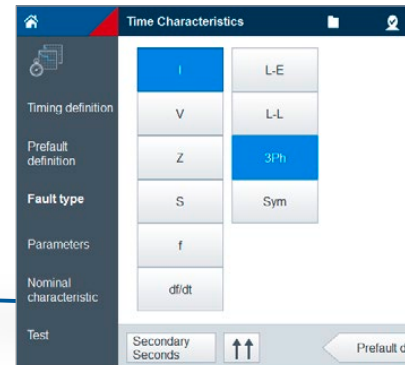www.omicronenergy.com/cmcontrol-p

Innovative user guidance

Example: Set up and perform overcurrent characteristics tests
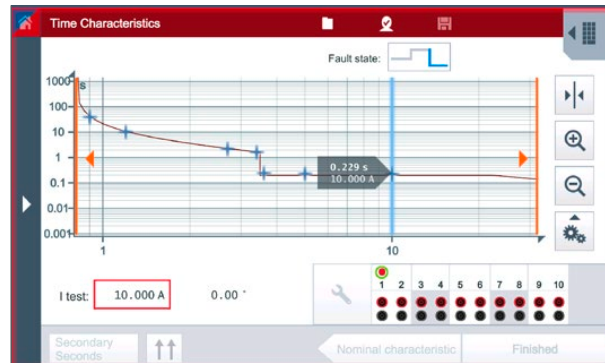
Tool selection

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.
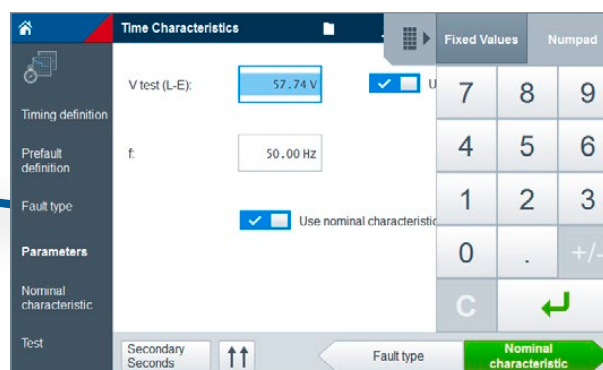

Applications

Protection relay testing

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

- > Differential
- > Reclosure
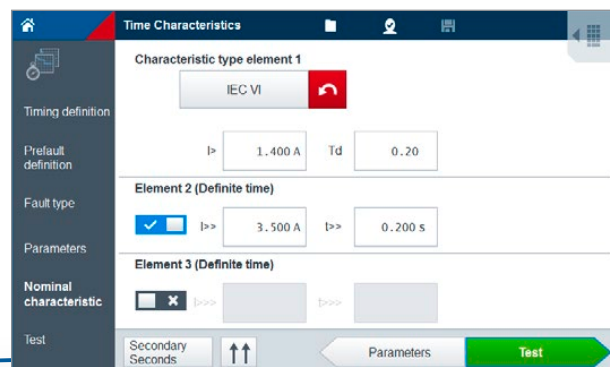- > Circuit breaker simulation

Select the fault type in an intuitive and logical way. Imped-ances, 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
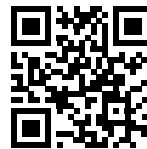> Transducer

Operating options

CMControl P App

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

Benefits

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

Scan the QR code to get the free demo App from the Google Play™ store.

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

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

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	CMControl P for new CMC[2]	CMControl P retrofit	CMC[1] + CMControl P
CMC 356	VESM2727	VE002826	VEHO2805	VEHO2806	VE002820
CMC 256plus		VE002721			VE002715
CMC 430		VE003109	-	-	-
CMC 353		VE002912	VEHO2901	VEHO2902	VE002908
CMC 310		VE003002	-	-	VE003001

[1] Without Test Universe
[2] With Test Universe

OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis and training make the product range complete.

Customers in more than 160 countries rely on the company's ability to supply leading-edge technology of excellent quality. Service centers on all continents provide a broad base of knowledge and extraordinary customer support. All of this together with our strong network of sales partners is what has made our company a market leader in the electrical power industry.

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

We are supporting you to deliver a world class service, every day, in every sector...

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