

CMC 310

Manual Protection Testing: The Easy Way



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The CMC 310 is specifically designed for basic three-phase testing of protection and measurement devices. It is operated by the CMControl P software which runs on the CMControl P unit, a Windows PC or on an Android tablet. Its intuitive user interface and the test tools included are optimized for quick manual testing in the field.

The lightweight and compact design makes the CMC 310 particularly suitable for testing distribution and industrial systems. If automated testing is requested, a CMC 310 can be upgraded to a CMC 353 at any time which then can be operated by the PC based Test Universe software.

Main Application Fields

- > Small utilities (e.g. distribution)
- > Industry
- > Service providers
- > SCADA testing
- > Distributed Energy Resources (DER), Smart Grid applications

DC supply (0 ... 264 V)

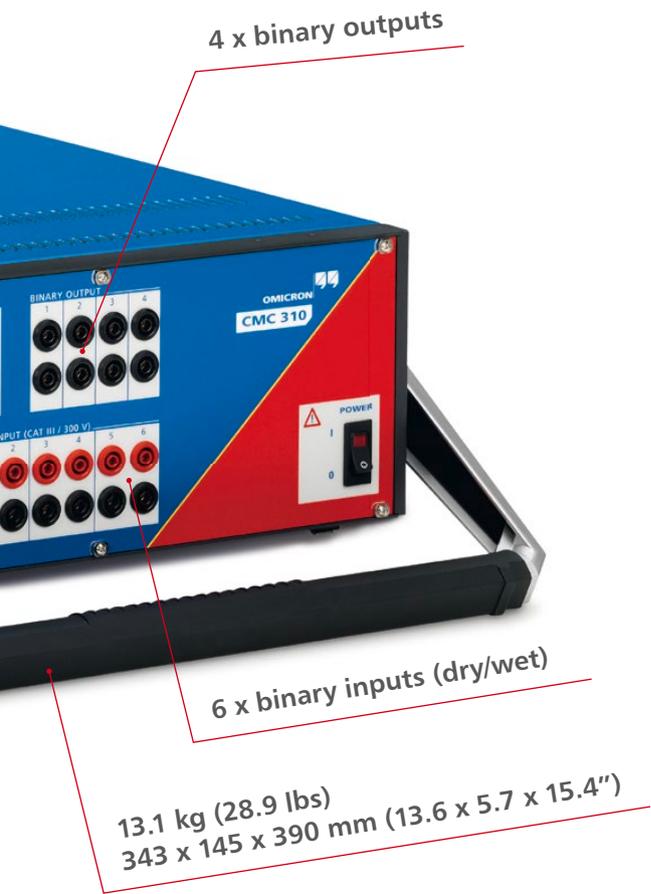
Three voltage outputs:
3 x 300 V or 1 x 600 V



Three current outputs:
3 x 32 A / 3 x 430 VA or
1 x 64 A / 1 x 870 VA



CMC 310 with CMControl P unit



Manual Control Options

CMControl P Unit

Due to its touch screen user interface and the control wheel setting up tests with the CMControl P unit is particularly easy and convenient.

The CMControl unit can either be attached to the CMC 310 or used as a handheld control. Magnetic elements at the rear allow it to be attached to standard protection cubicles.



CMControl P unit

Operation with CMControl P App

It's also possible to use the CMControl P functionality as an App on a Windows PC or an Android Tablet. Familiarize yourself with this alternative control option by downloading the free CMControl P App for your Windows PC from the OMICRON customer area or for your Android tablet from the GOOGLE Play™ Store.



CMControl P App

For detailed information on the CMControl software's functionality please see the separate CMControl P brochure or visit us at www.omicronenergy.com/cmcontrol-p.

CMC 310

CMC 310: Versatile and future-proof

Applications

Protection Relay Testing

- > Electromechanical relays
- > Static relays
- > Numerical relays
- > Relay panels
- > Meters

Substation Commissioning

- > Checking SCADA annunciations and measurement values
- > CT/VT polarity check
- > Wiring check
- > Plausibility check for CT/VT with primary injection

Distributed Energy Resources

- > General protection functions
- > Interconnection protection
- > Measurement and control

Upgrade to CMC 353

Your requirements may change in the future. To ensure a high level of flexibility and a future-proof solution, we offer the possibility to upgrade the CMC 310 to a CMC 353 test set at any stage.

Besides additional hardware related features, the upgraded test set also offers the capability to be controlled by the PC based Test Universe software for advanced secondary testing:

- > Using predefined test templates for fully automated testing (Protection Testing Library – PTL)
- > Testing of IEC 61850 IEDs (GOOSE and Sampled Values)
- > End-to-End testing with GPS or IRIG-B

Learn more about the CMC 353 and our advanced testing solutions on our website.



Your benefits

- > Easy manual testing with the CMControl P unit and the CMControl App running on a Windows PC or an Android Tablet
- > Portable and lightweight testing solution
- > Reduced testing effort, increased productivity
- > Highly reliable and economic solution
- > Future-proof – Upgrade to CMC 353 available

OMICRON provides...

- > Worldwide high quality technical support
- > Platforms for an international knowledge exchange
- > Training courses designed for electrical power system technicians and engineers

Ordering Information

CMC 310 with CMControl P unit

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|----------|-------------------------------|
| VE003001 | CMC 310 with CMControl P unit |
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CMC 310 for tablet control

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| VE003002 | CMC 310 with CMControl P App activation key |
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Upgrade to CMC 353 with CMControl P unit

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| VEHO3002 | Upgrade from "CMC 310 with CMControl P unit" to "CMC 353 with CMControl P unit" |
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Upgrade to CMC 353 for tablet control

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|----------|---|
| VEHO3001 | Upgrade from "CMC 310 with CMControl P App activation key" to "CMC 353 with CMControl P App activation key" |
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Upgrade to CMC 353 with Test Universe software

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| VEHO3003 | Upgrade from CMC 310 (with CMControl P unit or CMControl P App activation key) to CMC 353 plus Test Universe software (Basic Package) |
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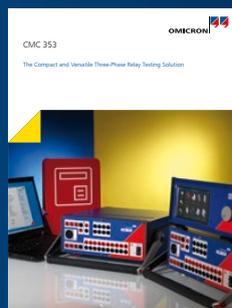
OMICRON is an international company serving the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products allows users to assess the condition of the primary and secondary equipment on their systems with complete confidence. Services offered in the area of consulting, commissioning, testing, diagnosis and training make the product range complete.

Customers in more than 140 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.

The following publications provide detailed information on the products described in this brochure and their applications:



Testing Solutions for Protection Systems



CMC 353 brochure



Product catalog (secondary equipment)

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