

Press release

Light, ultra-portable, precise – CMC 430

A new addition to the CMC product family from OMICRON

Weighing a mere 8.7 kg, the CMC 430 is the lightest and most precise protection test set in the world. Thanks to its robust design – including edge protection – it is ideally suited to portable applications, even when subjected to harsh ambient conditions and extreme temperature fluctuations.

Extensive test functions right through to hybrid measurements

The CMC 430's technical merits really come to the fore when testing numerical and communication-based relay systems and measuring systems, especially during tests with up to three currents of 12.5 A at the same time. Here its outstanding performance as a relay test set is combined with functions for hybrid measurements and recordings (analog, binary, GOOSE, and Sampled Values in accordance with IEC 61850). The EnerLyzer Live software option enables hybrid measurements and recordings to be taken simultaneously with active output channels.

Unique: Six voltage outputs for a broader range of test applications

The six voltage outputs allow the synchro-check function to be tested, as well as bay control systems with six voltage inputs – without an additional voltage amplifier. Red LEDs indicate the status of the voltage and current amplifier (continuous light for active output and flashing light for output overload). They are accompanied by an acoustic signal that can be switched off.

Performance and maximum accuracy in the test set sector

The three powerful 100 W current amplifier enable burden measurements to be taken and older protective device models to be tested. Thanks to its extremely high amplitude and phase accuracy (current and voltage), the CMC 430 is an ideal source for calibrating measuring instruments, such as energy meters, measuring transducers, PQ measuring instruments, and PMUs.

High-performance testing tools support an array of different testing tasks

The device can be controlled using either a Windows laptop or an Android tablet PC, on which the high-performance software testing tools from OMICRON come into play: Test Universe, CMContol App, or RelaySimTest.

Maximum mobility for the testing engineer

OMICRON offers two options for transporting the CMC 430. The trolley with rucksack function is the highly portable choice if the device needs to be transported easily in harsh conditions. There is also plenty of room for the required accessories in addition to the device. The highly resilient multi-function transport case has proved a particular hit for OMICRON. As well as a pull-out handle and wheels, it provides the familiar secure protection for the device and accessories against dust, dripping water, and mechanical influences, making it suitable for unsupervised transport or shipping. What is more, the robust lid can be raised to use as a work table for the control laptop, while the CMC 430 device remains inside the case.

Certified safety

The device is certified by TÜV SÜD AMERICA Inc. and meets European, North American, and international health and safety requirements.

Images



CMC 430 viewed from right



The multi-function transport case in use as storage for the protection test set and as a work table.

Company profile

OMICRON is an international company providing the electrical power industry with innovative testing and diagnostic solutions. The application of OMICRON products gives users the highest level of confidence when making condition assessments of primary and secondary equipment on their systems. 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.

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