

EPOS MC4 and ACTAS

EPOS MC4 is equipped with interfaces for connection to ACTAS test devices. Via the ACTAS test software, EPOS MC4 can be conveniently integrated as a source in switchgear tests. Automated test sequences and comprehensive analysis of test results are thus easily possible.

Measuring technology in robust packaging

EPOS MC4 is housed in a handy, extremely robust and resistant hard case. Waterproof and dustproof to IP67 when closed, the case absorbs even hard impacts without damage and reliably protects the test system's valuable electronics. And even the case lid has a special feature to offer. The cable compartment integrated into it offers sufficient space for the cable set supplied.

The robust test system is just as suitable for use on site as it is for use in production or in the laboratory.

Saving and evaluating test results

The test results are saved in the internal memory with a time and date stamp.

The data saved in the device can be downloaded and managed with the aid of a PC or laptop and the user-friendly EPOS MC software.

The measurement results can be presented in a report or exported to an Excel spreadsheet. It is also possible to save the test data in the software, ensuring that it can be made available for comparison when future maintenance and servicing is required.

Technical data

Source	
Output voltage	up to 270 VAC / up to 300 VDC
	Motor/coil voltage independently configurable
Current	max. 40 A
Frequency	DC, 50 Hz, 60 Hz
Measurement	
Voltage	0...300 VAC/DC
Current	0...100 AAC/DC
Measuring range	0,5...1500 Ω
Complete system	
Power supply	Rated voltage: 100...240 VAC, 47...63 Hz Current: max. 20 A
Connections	1 x Motor, 1 x I-coil, 2 x O-coil, All connection points are located on the front panel, 4 mm safety sockets are used.
Housing	Hard-top case
Dimensions (W x H x D)	505 x 257 x 409 mm
Weight	19,7 kg
Screen	High-resolution, resistive 5" touchscreen
Operation	Touch screen, jog wheel and three function keys, 4 enable keys
Display elements	4 status LEDs
Interfaces	RJ45, USB-B



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ELECTRONIC POWER SOURCES



EPOS MC4

**Motor and Coil Test System for
Circuit Breaker Testing**

EPOS MC4 is a compact, portable motor and coil test system with a particularly powerful AC/DC source.

EPOS MC4 is used to supply power to motors and trip coils and can be used as a battery substitute in switchgear and as a power supply during tests with ACTAS switchgear test systems.

The test system records the operating currents of spring winding and pump motors as well as trip coils and presents the numerical results of the motor and coil currents on the display.

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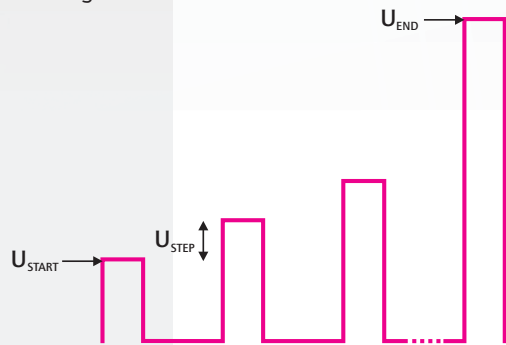
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Circuit breaker analysis

EPOS MC4 also provides a number of further functions for circuit breaker analysis:

- Analysis of motor and coil operation
- Determination of the coil resistance
- Determination of the minimum operating voltage
- Tests for undervoltage releases

It is easy to analyse the results which can give a good indication of the state of coils, motors and mechanical parts or point to faults between windings.



Powerful voltage source

The newly developed voltage source uses state-of-the-art power electronics. Thanks to the synthetic generation of output quantities, the source is unaffected by disturbances in the power supply. This means that tests can always be carried out under identical conditions, allowing direct comparison of the results.

Special features

- Variable test voltages with high voltage stability up to 270 VAC / 300 VDC
- Maximum currents up to 40 A
- Three outputs for opening/closing coils, one output for the motor
- Outputs are independently configurable with regard to voltage and frequency
- Short-circuit proof and overload-protected

Unlimited output duration without cooling phases

The electronically regulated source of the EPOS MC4 is practically loss-less and generates very little heat, even at maximum output power. This means that high currents and voltages can be output for almost unlimited periods of time without cooling phases, resulting in significant savings in time and money in comparison with conventional systems.

Soft startup

For the motor current output, it is possible to limit high in-rush currents, which can lead to the EPOS MC4 switching off, by means of a soft start.

A step-shaped ramp can be parameterized for the startup, which consists of a number of steps and a step time and increases from 0 to the nominal voltage value.

Simple and intuitive operation

For operation and control of the EPOS MC4, an operating unit with 5" touch screen, jog wheel, function and trigger keys is integrated:

- All settings are clearly displayed
- Test parameters can be edited directly
- Display of output values
- Additional display of operational status via LEDs

