

## EPOS 360

The multifunctional three-phase signal generator!

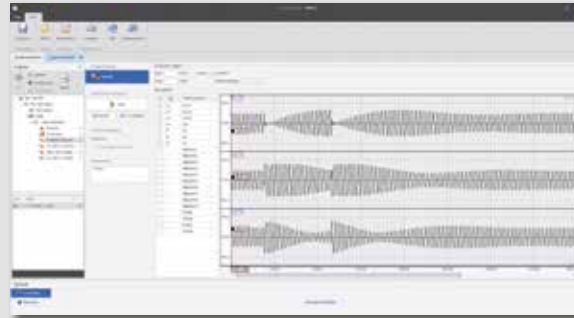


EPOS 360 is a multifunctional three-phase signal generator that offers maximum performance and highest signal precision. Thanks to intelligent amplifier technology and fully synthetic signal generation, any signal shape and complex transient signal characteristics can be output over a wide frequency range. EPOS 360 is suitable for stand-alone operation as well as for control via an external PC.

EPOS 360 has four voltage and three current signal sources. A powerful signal processor calculates the signal curves, which are output via high-precision D/A converters and electronic power amplifiers. The amplitude, phase and frequency parameters can be set independently of each other, are overload and short-circuit proof and can be varied over a wide range during output.

- 4 independent voltage channels up to 300 V
- 3 independent current channels up to 16 A
- Synthetic signal generation
- Wide frequency range
- Freely selectable waveforms
- Playback of transient signal curves
- High accuracy
- Very low distortion factor
- Separate auxiliary power supply

Output of COMTRADE records & generation of any signal characteristic



Output of a comtrade record

The software module „TRANSIG monitor“ supplied with EPOS enables the graphical display and output of COMTRADE recordings as well as the generation of any signal curves. It contains a signal editor for parameterizing and calculating signal curves, which can consist of a basic function and several superimposed functions. For special requirements, such as in test benches, there is a simple programming interface that can be used in COM/ActiveX and .NET environments.



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# EPOS

## CURRENT AND VOLTAGE SOURCES



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AC/DC sources for supplying and testing motors and trigger coils on switchgear as well as electronic three-phase signal generators for generating any type of signal.

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## EPOS CV 821/831/753

### Single-phase and three-phase voltage sources

Automatically regulated AC/DC voltage sources with high power and fast response times are suitable for the output of single-phase or three-phase voltages. They supply resistive, inductive or capacitive equipment and are used for testing components, motors and devices. These voltage sources offer a wide power range, precise control behavior and reliable operation thanks to high-performance components. The output voltage is continuously adjustable under load. They have an integrated control unit, high starting and rated currents, short-circuit protection, overload protection, high operational safety and availability. An Ethernet interface enables external control and connection to ACTAS test systems.



### Use in switchgear testing

EPOS CV can be conveniently integrated into switchgear testing via the ACTAS test software. Automated test sequences and comprehensive analyses of the test results are thus easily possible.

	EPOS CV 821	EPOS CV 831	EPOS CV 753
	single-phase		three-phase
	Motor-controlled, variable voltage transformer		
Voltage	1 x 15 up to 270 VAC 1 x 15 up to 300 VDC		3 x 15 up to 300 VAC <sub>PN</sub> 3 x 15 up to 520 VAC <sub>PP</sub> 1 x 15 up to 300 VDC
Current	1 x 30 AAC 1 x 20 ADC	1 x 40 AAC 1 x 30 ADC	3 x 25 AAC 1 x 32 ADC
Power	8.100 VA <sup>*)</sup>	11.500 VA <sup>*)</sup>	22.500 VA <sup>*)</sup>

<sup>\*)</sup> Variable voltage transformer specifications

## EPOS MC4

### Motor and coil test system for switchgear testing

EPOS MC4 is a compact, portable motor and coil test system with a powerful AC/DC source. It is used to supply power to motors and release coils and can be used as a battery replacement in switchgear systems and as a power supply for tests with ACTAS switchgear test systems. The system records the operating currents of spring-wound and pump motors as well as release coils and shows the numerical results of the motor and coil currents on the display.

### Analysis of switchgear devices

EPOS MC4 offers additional functions for analyzing switchgear, including analysis of motor running and coil tripping, determination of coil resistance, determination of minimum tripping voltage and testing of undervoltage releases. The results allow immediate conclusions to be drawn about the condition of coils, motors, mechanics or winding faults.

- Variable test voltages with high voltage stability up to 270 VAC / 300 VDC
- Maximum currents up to 40 A
- Three outputs for release coils (I, O1, O2), one output for the motor
- Voltage and frequency of the outputs can be set independently of each other
- Short-circuit-proof and overload-proof

