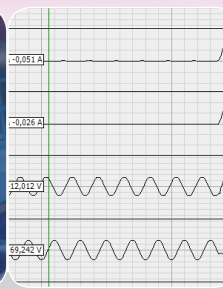
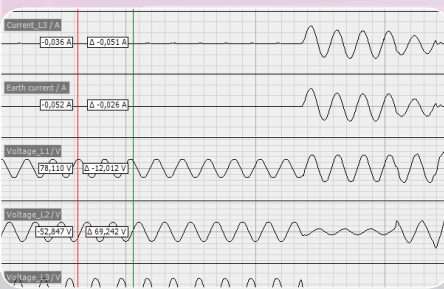


EPOS

300 | 340

Electronic Power Sources





EPOS 300 | 340 **Electronic Power Sources**

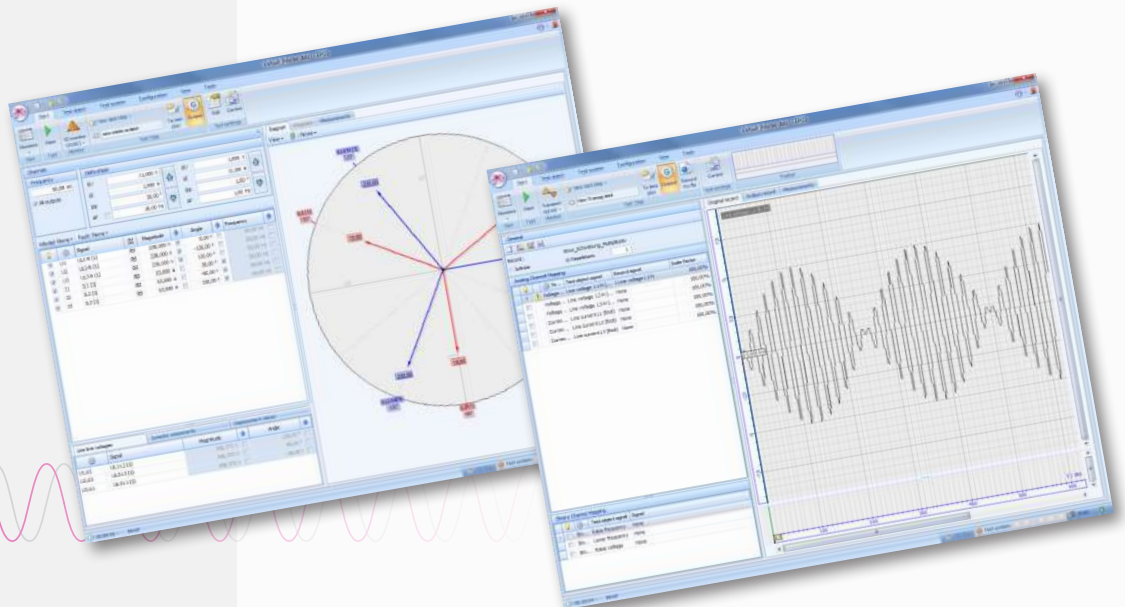
EPOS 300 and EPOS 340 are universal current and voltage sources which come into their own whenever maximum power and high signal accuracy are required. EPOS is the perfect choice when testing, setting and calibrating electricity meters, protection relays, fault recorders, power meters or power quality analysers.

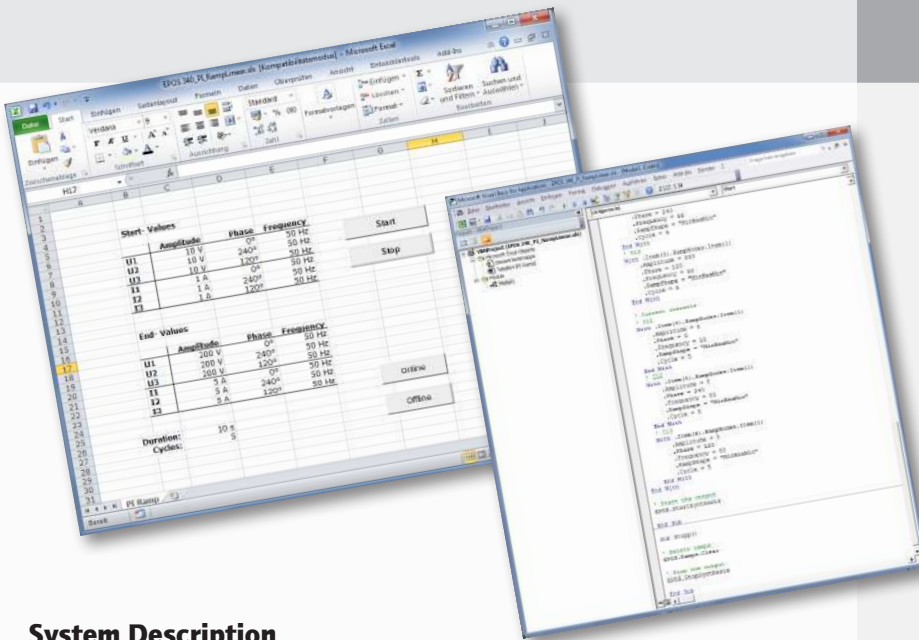
Intelligent amplifier technology and fully synthetic signal generation make it possible to issue any signal shape across a wide frequency range or even to play back complex transient fault records.

EPOS 300 and EPOS 340 are designed for stand-alone use or for operation with an external PC.

High-accuracy current and voltage sources are becoming increasingly important in many areas of electrical engineering and nowhere is this more evident than in the fields of measurement and test technology. Signal generation directly from the grid via transformers is no longer adequate for the purpose of either operating or testing many electronic components and devices.

EPOS 300 and 340 are the ideal solution whenever there is a need for absolutely precise signals with very low levels of harmonic distortion, freely selectable signal shapes and a high level of power.





System Description

The use of state-of-the-art technologies coupled with a high degree of system integration has made it possible to develop a compact, light-weight, portable device which is extremely powerful. The signal characteristics are computed by a high-performance signal processor and issued via high-accuracy D/A converters and electronic power amplifiers.

The synthetic generation of the output quantities guarantees immunity to disturbances in the supply.

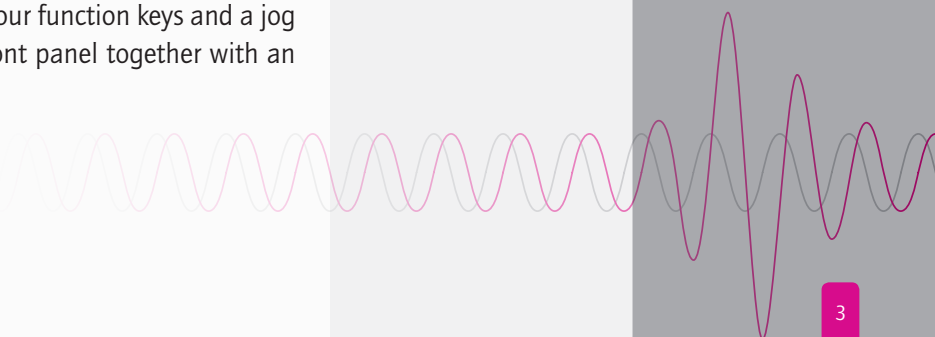
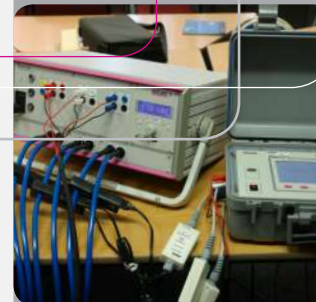
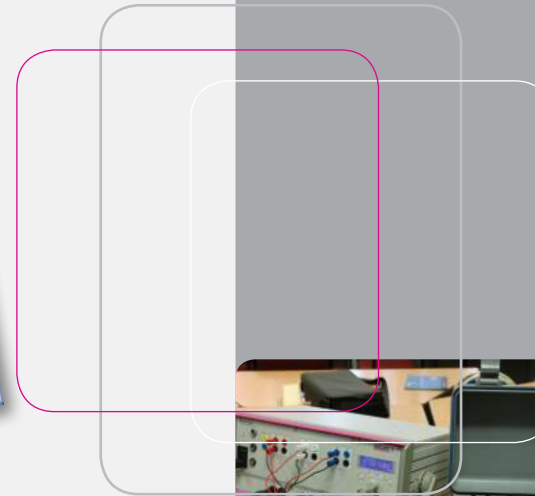
EPOS 300 features three voltage signal sources; EPOS 340 features four voltage signal sources. Both devices are equipped with three current signal sources. The amplitude, phase and frequency can be varied widely during output. This means that EPOS can also be used as a freely programmable three-phase function generator which is able to output any flicker signals or even records (from a disturbance recorder, for example) as transient signals.

Wide Range of Features

Two different models are available with maximum output currents of 16 A and 120 A. Both models feature an internal DC power supply which can be used to feed a test object, for example. In addition to the sources themselves, binary inputs and outputs are provided for control purposes.

Easy to Operate

EPOS 340 can be operated by means of a built-in control panel equipped with a high-resolution, resistive 3½" touch screen and four function keys. The graphical user interface makes for easy, intuitive operation. All the settings required for a test are displayed clearly on the screen. EPOS 300 is operated and controlled using four function keys and a jog dial. The user controls are located on the front panel together with an LCD screen.



Further Interfaces

A PC or laptop computer can be connected directly to EPOS 300 and EPOS 340. As a result, the devices can also be operated and controlled with the aid of the optional operating software.

In EPOS 340 an active USB interface has been integrated for data transfer via USB storage media, while an Ethernet interface allows direct integration in any network.

Programming Interface

The software also features a simple programming interface with a self-explanatory library for special requirements, e.g. for use with test stands developed by customers for their own use. This programming interface can be used in environments which support COM/ActiveX or in .NET environments.

	EPOS 300	EPOS 340	
Voltage outputs	3 x	4 x	0...300 VAC / 75 VA
Current outputs	-	3 x	0...16 AAC / 40 VA
	3 x	-	0...12.5 AAC / 130 VA or 3 x 120 AAC / 80 VA, switchable
DC output	■		12...260 VDC, 50 W
Binary inputs	4	8	Activation range 24...300 VDC
Binary outputs	3	2	Potential-free output relays
Analog inputs	-	8	0...± 10 V
Time synchronisation		■	Internal GPS receiver module
Operation	■	-	Membrane keypad with 4 function keys, jog dial, PC
	-	■	Touch screen, membrane keypad with 4 function keys, PC
Display	■	-	Alpha-numeric LCD screen, 4 x 20 characters
	-	■	High-resolution, resistive 3½" touch screen
Interfaces	■	-	RS232, USB-B, optional: Ethernet (RJ 45)
	-	■	RS232, USB-A, USB-B, Ethernet (RJ 45)
Housing W x H x D [mm]	19", 4 HU 470 x 204 x 316	19", 3 HU 470 x 162 x 316	

■ standard ■ optional

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