System concept

EPOS 340 features four voltage signal sources and three current signal sources. The signal characteristics are computed by a high-performance signal processor and output via high-accuracy D/A converters and electronic power amplifiers. The amplitude, phase and frequency can be varied widely during output.

Signal sources

- 4 independent voltage channels up to 300 V
- 3 independent current channels up to 16 A
- Synthetic signal generation
- Wide frequency range
- Freely selectable signal shapes
- Play-back of transient signal characteristics
- Generation of any flicker signal
- High accuracy
- Very low THD
- Separate auxiliary power supply

Specifications

Sources	Separately and independently configurable
Frequency range	DC...3 kHz
Transient signals	DC...4 kHz
Phase angle	0...360°
Voltage amplifiers	2 switchable output ranges
300 V output range	4-ph.: 4 x 0...300 V / 75 VA 1-ph.: 1 x 0...600 V / 150 VA
150 V output range	4-ph.: 4 x 0...150 V / 75 VA 1-ph.: 1 x 0...300 V / 150 VA
Current amplifiers	3-ph.: 3 x 0...16 A / 40 VA
DC output	12...260 V, overload and short-circuit protection
Output power	50 W (constant across the range)
Analog inputs	Measuring ranges 8 x 0...±10 V
Binary inputs	Configurable as potential-free/potential-carrying contacts
Quantity / Groups	8 / 2
Binary outputs	2 potential-free and galvanically isolated output relays
Operation	Touch screen, jog wheel, membrane keypad with 2 function keys, PC
Display	High-resolution, resistive 3.5" touch screen
Interfaces	USB-B, RJ45 (Ethernet)
Supply voltage	100...265 VAC / 120...265 VDC / 47...63 Hz
Housing	Portable 19" housing, 3 U
Dimensions	470 x 162 x 316 mm (W x H x D)
Weight	12 kg

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ELECTRONIC POWER SOURCES

EPOS 340

New! TJCP Operator Interface

EPOS 340

The multi-functional three-phase signal generator!

EPOS 340 is the multi-functional three-phase generator which comes into its own whenever maximum power and high signal accuracy are required.

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 signal characteristics. EPOS 340 is designed for use as a stand-alone device or for operation with an external PC.

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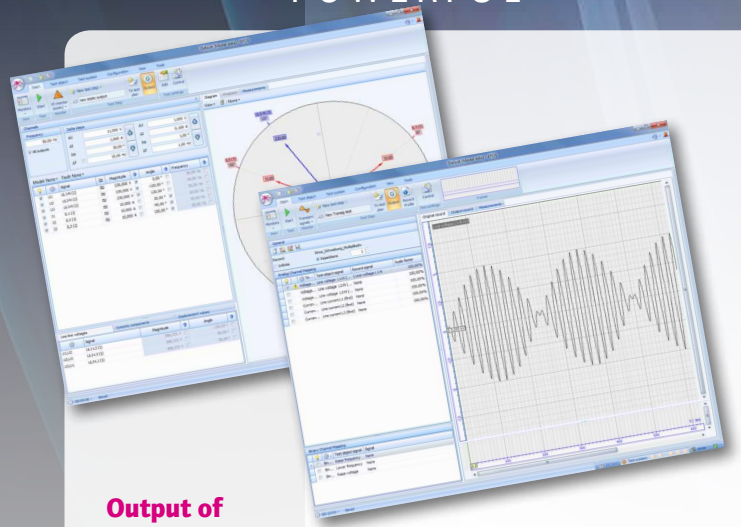


Output of COMTRADE records & generation of any signal characteristic

The TRANSIG-monitor included in the scope of delivery can be used for the full graphical display and output of recorded signal characteristics which are available in standard COMTRADE format. During tests these signal characteristics are then "played back" as transient signal waveforms by EPOS.

The TRANSIG-monitor also includes a signal editor which can be used to configure and calculate any signal characteristic. The signal characteristics can be generated from a basic function, such as a sine wave, with one or more superimposed functions, such as a direct component, exponential functions, harmonics, etc.

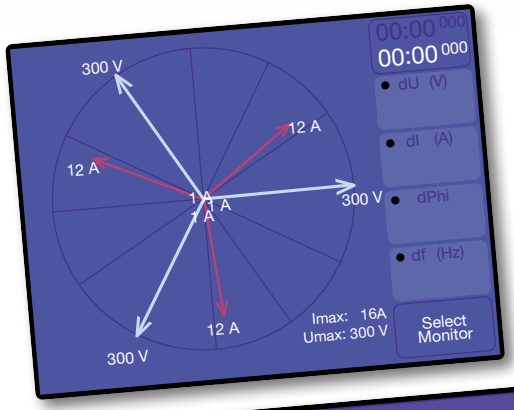
Programming interface

EPOS 340 also features a simple programming interface for special requirements, e.g. for use with test stands. This programming interface can be used in environments which support COM/ActiveX or in .NET environments.

The new TJCP Operator Interface

A new operating concept and extra powerful hardware make the EPOS 340 speedier than ever before. The system responds directly to user actions and can switch swiftly from one menu to another, all processes run smoothly.

The clear, restructured user interface guides the user quickly and intuitively to complete the task in hand. The individual screens are self-explanatory and uncluttered.



- High-resolution, resistive 3.5" touch screen
- Ergonomic jog wheel for fast, easy settings
- An illuminated ring and acoustic signals indicate system status during settings and output
- USB and Ethernet interface for direct connection to PCs and networks
- Smart touch technology for easy operation
- User actions, such as amplitude, phase angle or frequency adjustments, are processed in real time and executed without delay
- Settings can be selected from templates

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