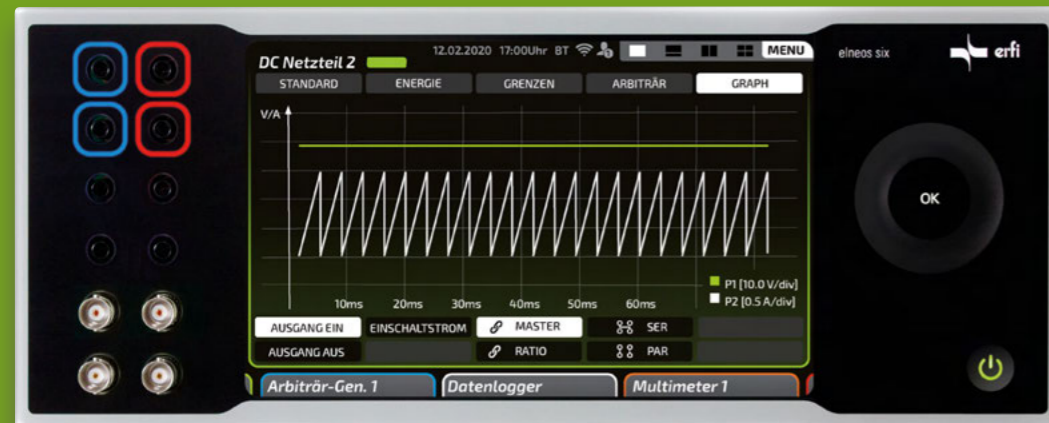


Power Arbitrary Generator up to 2,5 kHz

Order no. [EL6.LDC.032.01A](#) to [EL6.LDC.100.06A](#)



Curve parameters: Input of the different curve parameters in tabular form. AC and DC parameters are to be entered for this purpose.



Curve shapes: Generation of any curve shapes with the full power of the control network device by step-free processing of the curve representation.



Independent programming: Thanks to variable screen layout, double power arbitrary generators can be programmed independently of each other.

Graphical power arbitrary generator

A table enables the input of all signal shapes and parameters. The evaluation of the curves is visualised by the data logger with recording function. Through the powerful processor, several power arbitrary generators can process and display different sequences simultaneously.

Up to five measurement curves can be visualised simultaneously. Values from other devices can also be recorded and displayed in parallel. Results can be documented quickly with the graphic display. The data logger, which works in the background, stores the data that can be read out later.

Sequencer function

Up to 400 segments per sequence can be entered or transmitted via interfaces and up to 10 different sequences can be processed. Each sequence can be assigned to any power arbitrary generator that processes the composite waveform. The sequence have different AC parameters: waveforms (sine, rectangle, triangle), period duration and amplitude. In addition, per segment DC parameters can be defined. The sequencer allows signal shapes with different frequencies to be cascaded. Frequencies of up to 2.5 kHz enable the simulation of fast and high-energy signals.

The dynamics of the new measuring card enable the simulation of almost all signal forms. Vehicle on-board voltage pulses, high-energy bursts, sudden voltage dips and many more are quickly reproduced. The sequencer is equally suitable for education and industry as a highly efficient tool.

Technical data and features

(order data preferred types p. 88-89 | device p. 95-96)

Standard waveforms: sine, square, triangle;

Duty cycle: variable;

Sequencer: allows different waveforms with different frequencies to be cascaded;

Limits: all measured value limits programmable;

Frequency: all waveforms up to 2.5 KHz;

Segments: 400 segments can be edited directly on the unit or read in via interface.

Per segment: waveform, period, amplitude, duty cycle as well as superimposed DC parameters with start and end value (U/I);

Data logger: the 5-channel operation enables a storage of 100,000 measured values per channel. The values can be visualised and read out via interface.

Measured value display: X- and Y-graph scalable by 2-finger gesture. Ideal for recording changes (long-term measurement).

Input

Start of measurement by trigger pulse of the input (edge control).

Special features

- Simulation of a voltage drop in the DC supply (brown-out) for testing the reset switching of a processor.
- Several supply voltages that rise one after the other when switched on and fall one after the other when switched off (power sequencing).
- Superimposition of an artificial mains hum on the DC supply of a DUT to measure the PSRR (power supply rejection ratio). The term provides information about the extent to which the output voltage of an amplifier changes when its supply voltage changes.

For operational amplifiers, the term PSRR is used in the technical data sheets.

- Simulation of the on-board voltage drop of a vehicle during starting. The standard signal shapes available for this can be programmed by the user or by us on request.

Output

A digital output is triggered when the measured values are exceeded or fallen short of.