Arbitrary functionality: Any two waveforms can be transmitted, selected and stored in the unit's memory with a maximum of 8,192 total sample points.
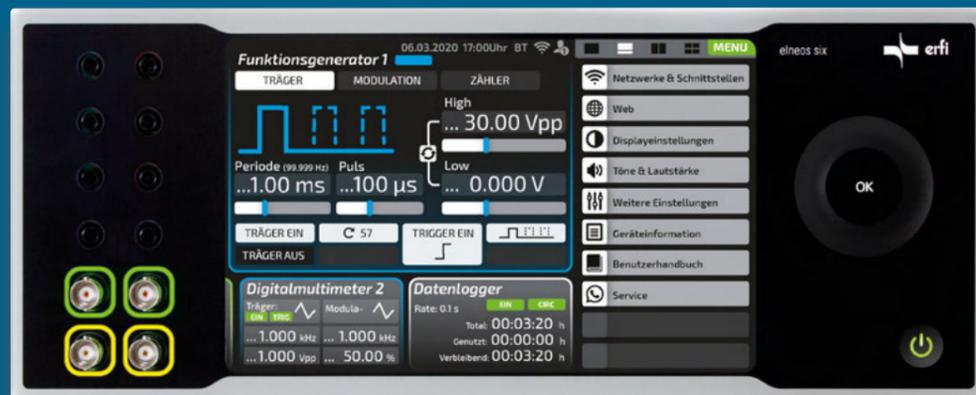
Dynamic screen content: When the menu screen is displayed in parallel, the remaining screen content is automatically scaled. All devices remain visible and operable at the same time.

New connection panel: The panel slides into the screen by a swipe gesture from the right and the other screen contents contract. In this way, all connections remain visible and operable when the connection panel is displayed.

Fast Double Signal Arbitrary Generator

Order no. EL6.S

Two generators in one

With the additional arbitrary function, any waveforms can be generated in addition to the standard waveforms. For the generation of signals, 8,192 sampling points are available for each of two waveforms. Two waveforms can be stored and recalled. Via the remote control software *highlink Power*, waveforms can be generated in graphical or tabular form on the PC and transferred to the unit. The *highlink Power* software can be used to simulate complex signals of the vehicle electrical system or the rectification technology. *highlink Power* enables a signal acquired with the oscilloscope to be read in and converted, so that the points obtained can be transmitted directly to *elneos six*.

Innovative connection panel

The connection panel is called up by a swipe movement and shows the actual values of all outputs and inputs. For example, the waveform, amplitude and frequency of the function or arbitrary generator are displayed as well as the actual values of the outputs of the DC and AC voltage sources. Up to 7 units are visible at the same time and 3 of them can still be operated!

Freely programmable modulation

Using the arbitrary function as a useful signal and the freely programmable carrier signal results in further degrees of freedom. With this solution, all signal shapes can be modulated and the carrier signal can be modulated with the arbitrary signal, for example. All modulation types and properties correspond to the previously described function generator. In automotive on-board electronics or other electronics, this functionality guarantees that the desired signal shape can be reproduced.

Outstanding performance potential

If this fast arbitrary function generator is combined with the power arbitrary generator for high electrical output signals of the control power supply units, all conceivable simulations, tests and measurements of the power electronics and the fast signal electronics can be carried out with a single device. If the powerful digital multimeter with power meter and one of the new AC sources are also selected, a complete measuring station can be replaced with a single measuring device. All these functionalities are essential building blocks for education and industry alike.

Technical data and features	(order data preferred types p. 88-89 | device p. 99)

Frequency characteristics

				Input
Sine:	1 µHz to 40 MHz	Triangle:	1 µHz to 5 MHz	Illuminated BNC lab jacks with disappearing effect
Trapezoid:	1 µHz to 5 MHz	Sawtooth:	1 µHz to 5 MHz	*Input:* counter input ext. input signals up to 1,5 GHz
Rampe:	1 µHz to 5 MHz	Rectangle:	1 µHz to 5 MHz	*Input:* trigger input for defined signal start
Arbitrary:	1 µHz to 5 MHz, 2 memory locations,			*Input sensitivity:* 100 mVeff
	up to max. 8,192 sample point			

Frequency sources

two independently programmable function generators;

Output

Illuminated BNC lab jacks w. disappearing effect
Output: up to 30 Vss idle / 5 V TTL compatible

Trigger impulse

Extern: via BNC socket
Intern: via Menu for defined signal start

Frequency counter

Measuring range: 150 MHz, optional up to 1,5 GHz
(order no. EL6.F1G)
Input voltage: 100 mVeff bis 5 Veff

Impulse

Individual pulse: single & multiple pulses up to 999 s.
Burst mode arbitrarily programmable by parameter.
Pulse and pause times: bis 999 s
Number of repetitions: 1 bis ∞

Amplitude

Resolution for all waveforms: 14 Bit (16.384)
Output amplitude: 30 Vss idle, 1.8 mV Resolution