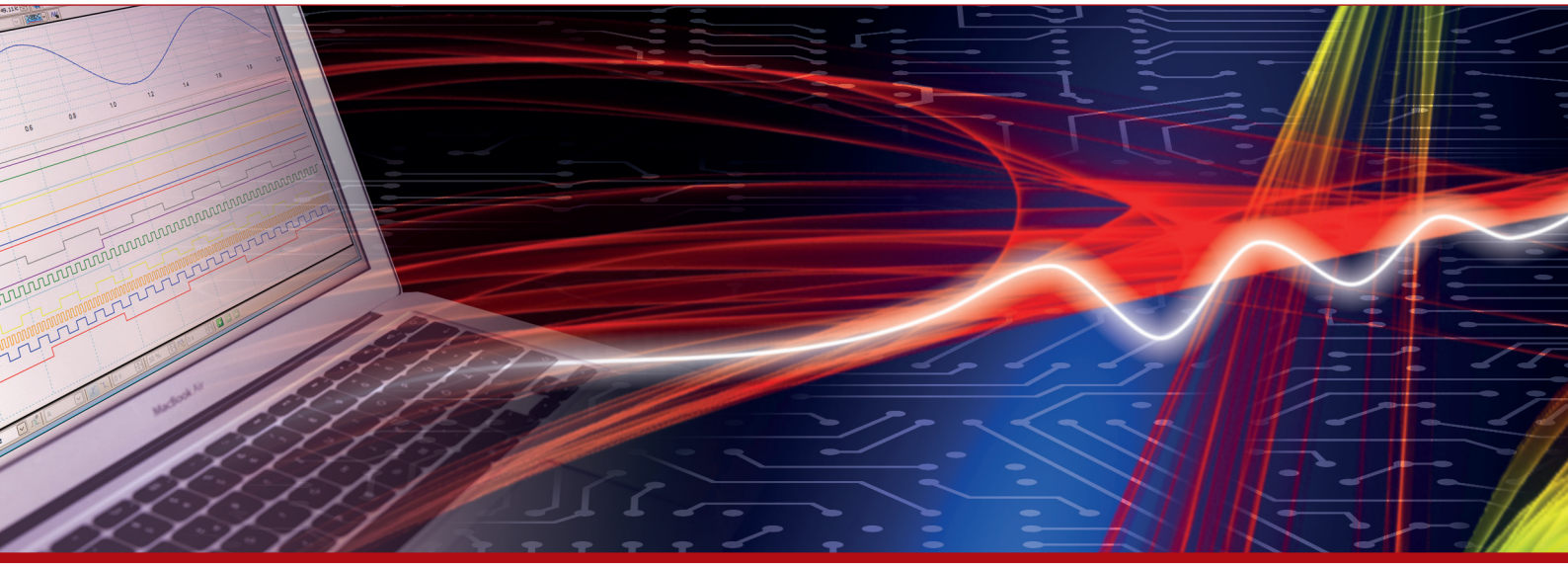
Product Datasheet - Technical Specifications



More information in our Web-Shop at ▸ **www.meilhaus.com** and in our download section.

Your contact

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Package contents

- M530 series generator – 1pc
- USB cable – 1pc
- Plug in adapter – 1pc
- installation leaflet – 1pc
- CD with software and user’s guide in pdf – 1pc

Performance characteristics

Outputs

Number of channels	1
Number of outputs	2, low and high level (L a H)
Output attenuator	Settable to 0 or -20dB on L output
Max. output voltage, output L, no load	-4.5V to 4.5V (9Vpp) attenuator set to 0dB -450mV to 450mV (900mVpp) attenuator set to -20 dB
Max output voltage, output H no load	-25V to 25V (50Vpp)
Recommended range of output voltage setting, output L, no load	800mVpp to 9Vpp attenuator set to 0dB 80mVpp to 900mVpp attenuator set to -20 dB
Recommended range of output voltage setting, output H, no load	4.6Vpp to 50Vpp
Output voltage setting step, output L, no load	< 2.5mV (attenuator set to 0dB) < 250uV (attenuator set to -20 dB)
Output voltage setting step, output H, no load	< 13mV
Output voltage setting accuracy	Output L: +-2% from the actual value in recommended range up to 10 MHz. Output H: +- 2.5% from actual value in recommended range up to100 kHz +-5% from 100kHz to 200kHz
Output voltage shift range, output L, no load	+-1.5V attenuator set to 0dB +-150mV attenuator set to -20 dB
Output voltage shift range, output H, no load	+-8V
Shift setting accuracy, output L	+-1.5% from whole range
Shift setting accuracy, output H	+-2% from whole range
Output resistance, output L	50Ohm
Output resistance, output H	600Ohm
Output resistance accuracy, output L	+-1.5% attenuator set to 0dB +2%, -0.5%, attenuator set to -20 dB
Output resistance accuracy, output H	+- 1.5%
Filter	Settable to 20MHz, 40MHz or off
Output pulse edge length, output L	< 10ns, filter off
Output pulse edge length, output H	< 2.5us
Short circuit protection	Unlimited

Waveform generation

Waveform memory length	8192 samples in “standard“ mode, maximally 16384 samples in „arbitrary“ mode

Frequency setting step	< 0.003% from actual value
Frequency accuracy	0.01% from actual value
Maximum output update rate	100 000 000 samples/s
Output waveform period length	2mHz to 50MHz *
Modes of operation	Periodic, single or triggered

* - The period consists of two points, when period length is 50MHz

Synchro

Trigger input	3.3V CMOS compatible
Trigger input threshold voltage	about 1.6V
Trigger input maximum input range	-10V to +13V
Trigger output	3.3V CMOS compatible

Power

Power sources	- USB interface via USB cable - In order to activate high voltage output (H), auxiliary 10V to 18VDC power supply is required (wall adaptor is the part of the package).
Power consumption	- max. 480mA from USB - 1.2W to 2.25W from auxiliary power supply (depending on the output voltage and load of the high voltage output)

Mechanical characteristics

Dimensions with no feet and connectors	165 x 111 x 35 mm
Dimensions with feet and connectors	182 x 111 x 39 mm
Weight	530 g