

## Stimulus Generator 4002–1.6 A-opto

### Technical Specifications

<b>General</b>	
Operating temperature	10 °C to 50 °C
Storage temperature	0 °C to 70 °C
Dimensions (W x D x H)	235 x 170 x 60 mm
Weight	1.2 kg
Fuse	Internal, 3.15 A slow
Number of analog output channels	2
Rise time (10 - 90 %) current	40 µs @ ΔI = 100 mA ...900 mA
Time lag between Sync Out and output	15 (± 2) µs
Output current	0 ... +1.6 A @ max. 5.5 V Compliance voltage (between +I and -I)
Output current resolution	1 mA
Resolution	14 bit
Time resolution	20 µs
Output signals	Freely programmable (rectangular, ramp, sinus)
Maximum frequency (rectangular waveform)	25 kHz
Memory capacity for stored waveforms	64 MB
<b>Timing on external trigger</b>	
Minimum time length of trigger input (TTL)	40 µs
Time lag between trigger in and Sync Out	70 (± 10) µs
Maximum trigger input frequency	10 kHz
<b>Interface and connectors</b>	
Connector for stimulation channels	2 mm banana plug
Sync Out for synchronization	2 digital channels via coax cable
Trigger In for synchronization	2 digital channels via coax cable
Interface (connection to computer)	USB 2.0 High Speed
Download rate	Maximal 480 Mb per second
<b>Power supply unit (MPU30)</b>	
Input voltage	90 – 264 VAC @ 47 – 63 Hz
Output voltage	11 – 13 V
Max. Power	30 W
<b>Software</b>	
MC_Stimulus II	Version 3.5.0 and higher
Operating system	Microsoft Windows ® 10, 8 and 7 (32 or 64 Bit), English and German versions supported
Data import / export	ASCII file format