Stimulus Generator 5 High Voltage, STG5 HV

Stimulus Generator for high voltage Stimulation



Technical Specifications

General Specification	
Operating Temperature	10 °C to 40 °C
Storage Temperature	0° C to 50 °C
Operation Humidity	10 - 85 %, non condensing
Storage Humidity	10 - 85 %, non condensing
STG5 HV Device	
Base: Dimensions (W x D x H)	325 mm x 310 mm x 47 mm
Satellite: Dimensions (W x D x H)	325 mm x 310 mm x 37 mm
Base: Weight	2.1 kg
Satellite: Weight	1.44 kg
Base: Number of analog output channels	2
Satellite: Number of analog output channels	2 per satellite, up to 3 satellites, so in total up to 8 output chanels
Output voltage	-50 V to + 50 V @ ± 100 mA (± 200 mA peak)
Output voltage resolution	25 mV
Rise time (10 - 90 %)voltage	1,5 µs @ delta U = 40 V
Time lag between Synch Out and voltage output	2.5 µs
Resolution	16 bit
Time resolution	5 µs
Output signals	Freely programmable (rectangular, ramp, sinusoidal)
Maximum frequency (rectangular waveform)	100 kHz
Memory capacity for stored waveforms	64 MB

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Timing on external Trigger	
Minimum time length of trigger input (TTL)	40 µs
Time lag between trigger input and Sync Out	70 (± 10) µs
Maximum trigger input frequency	10 kHz
Interfaces and Connectors	
Coax connector for analog stimulation channels	2 per base, 2 per satellite
Coax connector for Sync Out for synchronization with following devices	2 per base, 2 per satellite
Coax connector for Trigger In for synchronization with preceding devices	8, only on the base device
Interface (connection to computer)	USB-C port
Download rate	max. 480 Mb per second
External Power Supply	
Supply voltage	100 - 240 VAC, 1.4 A, 50 - 60 Hz
Unit voltage	24 VDC, 60 W
Software	
Operating system	Microsoft Windows ® 11, 10, (64 Bit), English and German versions supported
MC_Stimulus III	Version 1.0.16 and higher
Data import / export	ASCII file format

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