

Stimulus Generator STG5-Opto 2-Channel Stimulus Generator

STG5-Opto with 2-channel stimulus generator for current-driven electrical stimulation of high power LEDs

Warning: The LED output is not galvanically isolated, please connect the provided LEDs only, otherwise your risc short circuits!

General	
Operating temperature	10 °C to 50 °C
Storage temperature	0 °C to 70 °C
Dimensions (W x D x H)	Base: 325 mm x 310 mm x 47 mm Satellite: 325 mm x 310 mm x 37 mm
Weight	Base: 2.1 kg Satellite: 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 channels
Rise time (10 - 90 %) current	10 µs @ ΔI = 0 mA ...500 mA
Time lag between Sync Out and output	15 (± 2) µs
Output current	0 ... +1.6 A @ max. 5.5 V Compliance voltage
Output current resolution	1 mA
Time resolution	5 µs
Output signals	Freely programmable (rectangular, ramp, sinus)
Maximum frequency (rectangular waveform)	100 kHz
Memory capacity for stored waveforms	64 MB
Timing on external Trigger	
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
Interface and Connectors	
Coax connector for analog stimulation channels	2 per base, 2 for one satellite only
Coax connector for Sync Out for synchronization with following device	2 per base, 2 for one satellite only
Coax connector for Trigger In for synchronization with preceding device	8, only on the base device
Interface (connection to computer)	USB-C port
Download rate	Maximal 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	
MC_Stimulus III	Version 1.0.10 and higher
Operating system	Microsoft Windows ® 10 or higher, English and German versions supported
Data import / export	ASCII file format



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