



## STG2008 Stimulus generator

Operating temperature	10 °C to 35 °C
Storage temperature	0 °C to 50 °C
Relative humidity	10 % to 85 %, non-condensing
Dimensions (W x D x H)	320 mm x 330 mm x 85 mm
Weight	2.9 kg
Fuse	2 A, slow blow
Supply voltage (external power supply)	100-240 VAC @ 47 to 63 Hz
Resolution	13 bit
Time resolution	20 µs
Output signals	Freely programmable (rectangular, ramp, sinusoidal)
Output rate	50 kHz
<b>Voltage outputs</b>	
Number of analog voltage outputs	8
Number of inverted analog voltage outputs	8
Output voltage	-8 V to +8 V
Output voltage resolution	2 mV
Output voltage slope	> 4 V/µs
Rise time (10-90 %)	3 to 5 µs @ delta U = 1 V
Maximum output current	+/-20 mA
Time lag between Sync Out and voltage output	12 µs +/-2 (@ amplitude > 200 mV)
<b>Current outputs</b>	
Number of analog current outputs	8
Number of inverted analog current outputs	8
Output current	-0.8 mA to +0.8 mA
Output current resolution	200 nA
Output current slope	100 µA/µs (@ RL = 10 kilohms)
Rise time (10-90 %)	3 to 5 µs @ delta I = 0.4 mA & RL = 10 kilohms
Compliance voltage	max. 150 V, guaranteed 120 V @ 0.8 mA (between -I and +I outputs)
Time lag between Sync Out and current output	15 µs +/-2 (@ amplitude > 100 µA & RL = 10 kilohms)
<b>Timing on external trigger</b>	
Minimum time length of trigger input (TTL)	20 µs
Time lag between trigger input and stimulus output	34 +/- 10 µs
Time lag between trigger input and Sync Out	24 +/- 10 µs
Maximum trigger input frequency	10 kHz
<b>Interface and connectors</b>	
Sync Out for synchronization with following devices	4 digital channels via coax cable
Trig In for synchronization with preceding devices	4 digital channels via coax cable
Interface (connection to computer)	USB 1.1
Download rate	12 Mbps
<b>MC_Stimulus program</b>	
Operating system	Windows 2000 or XP; English and German versions supported
Data import	ASCII file format