



## STG1008 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)	275 mm x 330 mm x 115 mm
Weight	4.8 kg
Fuse	0.2 A @ 230 V, slow blow; 0.4 A @ 115 V, slow blow
Supply voltage	Available types: 100 VAC, 115 VAC, or 230 VAC @ 50 to 60 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	120 +/- 10 µs
Time lag between trigger input and Sync Out	110 +/- 10 µs
Maximum trigger input frequency	50 Hz
<b>Interface and connectors</b>	
Sync Out for synchronization with following devices	Digital channel via coax cable
Trig In for synchronization with preceding devices	Digital channel via coax cable
Interface (connection to computer)	RS232 serial port
Download rate	56 Kbps
<b>MC_Stimulus program</b>	
Operating system	Windows 98, ME, NT, 2000, or XP; English and German versions
Data import	ASCII file format