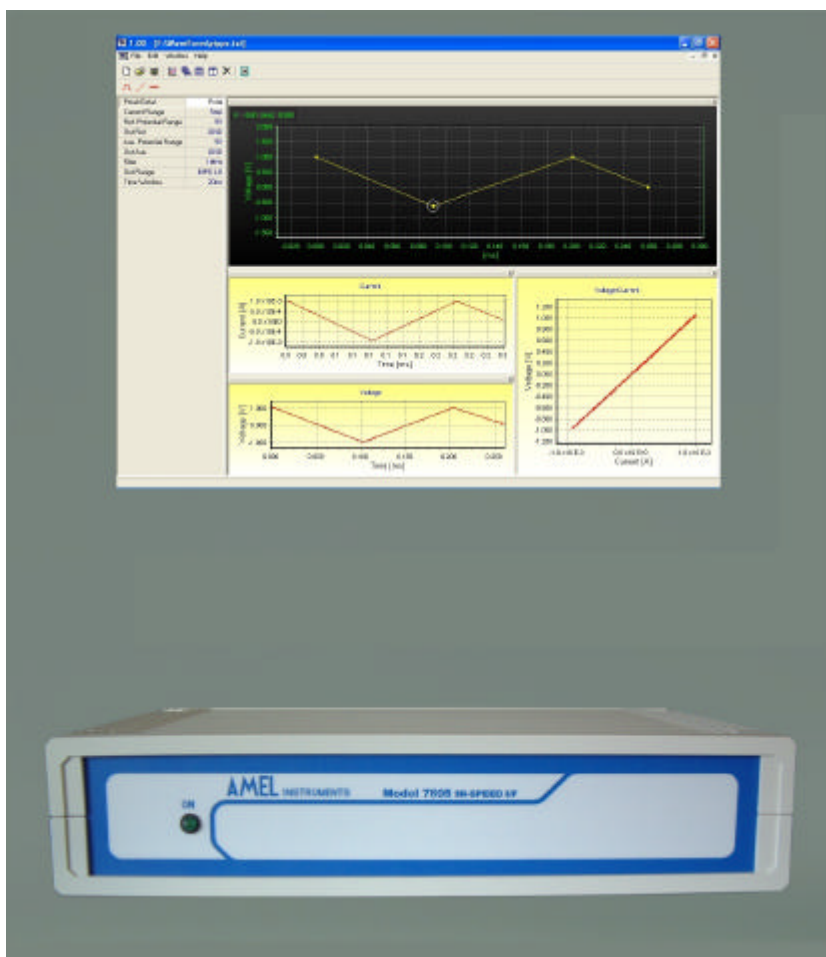


7805

high speed arbitrary waveform generator and digitiser for electrochemistry



AMEL is breaking the speed limit once again !

It is hard to see new things without the right tool to explore. Electrochemical techniques have made a long run since the first cyclic voltammetry took place, and each time a new field was faced by the scientist, the request for more specific equipment was there. At AMEL we are used to listen carefully those requests and to translate them in solutions since the company startup.

So, is not surprising the introduction of this high speed interface for the most demanding tests, with microseconds' capability and plenty of features for optimal flexibility. The unit can interface easily with any potentiostat through analogic connections, but gives the best performances in junction with the new 7000 series, integrating flawlessly the software with the Junior Assist suite.

So powerful and so easy to manage, with the arbitrary waveform graphical editor that let the user visualize what will be the stimulus and an easy digitiser interface to see the results.

Explore new field with us !



HIGH SPEED ARBITRARY WAVEFORM GENERATOR / DIGITISER AMEL MODEL 7805

Operating Mode	Arbitrary waveform generation and data acquisition
Analog bandwidth	DC – 2.0 MHz
Potentiostat connections	
Measuring configuration	Waveform out to modulation input of the pstat I, V inputs from monitor output of the pstat
Voltage range	+/- 5 V DC+pkAC gen. Output +/- 10 V Vin +/- 5 V I in
Input / output BNC	Outer contact grounded receptacle
Generator performances	
Sampling time	500 nS – 500 uS
Maximum buffer length	20 mSec – 20 Sec
Generator output	50 ohm +/- 5 V
Digitiser performances	
Voltage range	+/- 10 V V input +/- 5 V input
input impedance - capacitive part	< 50 pF
Input impedance - resistive part	> 1 Mohm
Sampling time	200 nS- 200 uS matching the relative generation window
Input bandwidth	> 2 MHz (-3 db)
Measure performances	
DC & AC accuracy	0.2% +/- 1 LSB
Meters and interfaces	
Voltmeters	12 bit I/V input with simultaneous sampling
Generator	14 bit generator
Sampling rate	200 nSec min on the A/D channels corresponding to 500 nSec on the D/A channels
Digital interface	USB 2.0 and 1.1 compatible
Power supply and size	
Power sources	From the USB (500 mA), or from external psu (5 V 600 mA max)
Power consumption	3W max.
Size & weight	400 x 430 x 90 mm (L x W x H) Kg 3 (rackmount brackets excluded)