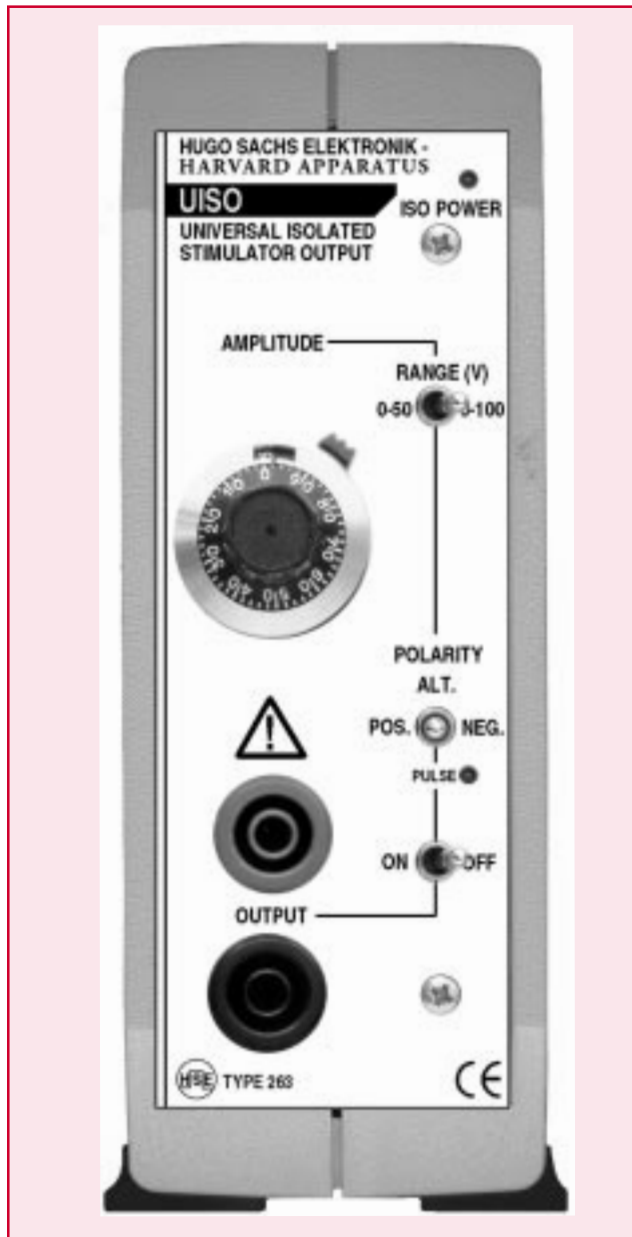


Universal Isolated Stimulator Output *UIISO*



This unit is required to produce ungrounded (isolated or floating) stimuli and prevent interference in any biopotentials (ECG, EMG, EEG etc.) which are recorded simultaneously. It can be connected to virtually any type of stimulator delivering a trigger pulse with the same width as the stimulus duration. The input for the trigger impulse is a BNC socket on the back plane. It can also be connected to a TTL trigger output generated by a software on a computer as a power amplifier. A switch selects the output amplitude range (0–50, 0–100 Volt). Fine adjustment is provided by the fine control on a 10-turn Potentiometer. Stimuli produced can be either monopolar (positive or negative), or alternated. Alternated stimulation avoids electrode polarization.

- Generates isolated stimuli in the range of 0–100 Volt
- Can be connected to any stimulator delivering a trigger signal
- Can be used in combination with a trigger output generated by a computer software as a power amplifier
- Applications:
 - Electrophysiology
 - In case of simultaneous biopotential recording

Specifications

Trigger Signal	3 to 15 Volt, Trigger level 1.5 Volt, active low or active high (can be switch internally using a jumper)
Trigger Input Impedance	10 k Ω
Trigger Input Width	10 μ s to 10 msec defines the Stimulus duration. If the Trigger Signal Width exceeds 10 msec the stimuli duration is limited on 10 msec
Stimuli Output	Constant voltage, floating, isolated
Stimuli Output Voltage	Two ranges 0 to 50 Volt, 0 to 100 Volt
Stimuli Output Current	1.8 to 2 A for stimuli duration < 100 μ sec, 0.5 A at 10 msec stimuli duration
Stimuli Polarity	Positive, Negative, Alternating
Dimensions, H x W x D	160 x 55 x 250 mm (6.3 x 2.2 x 8.7 in)
Weight	1.3 kg (2.9 lbs)

Catalog No.	Product
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CGS 8108.71	Universal Isolated Stimulation Unit, 110 VAC, 60 Hz
CGS 8109.71	Universal Isolated Stimulation Unit, 230 VAC, 50 Hz