

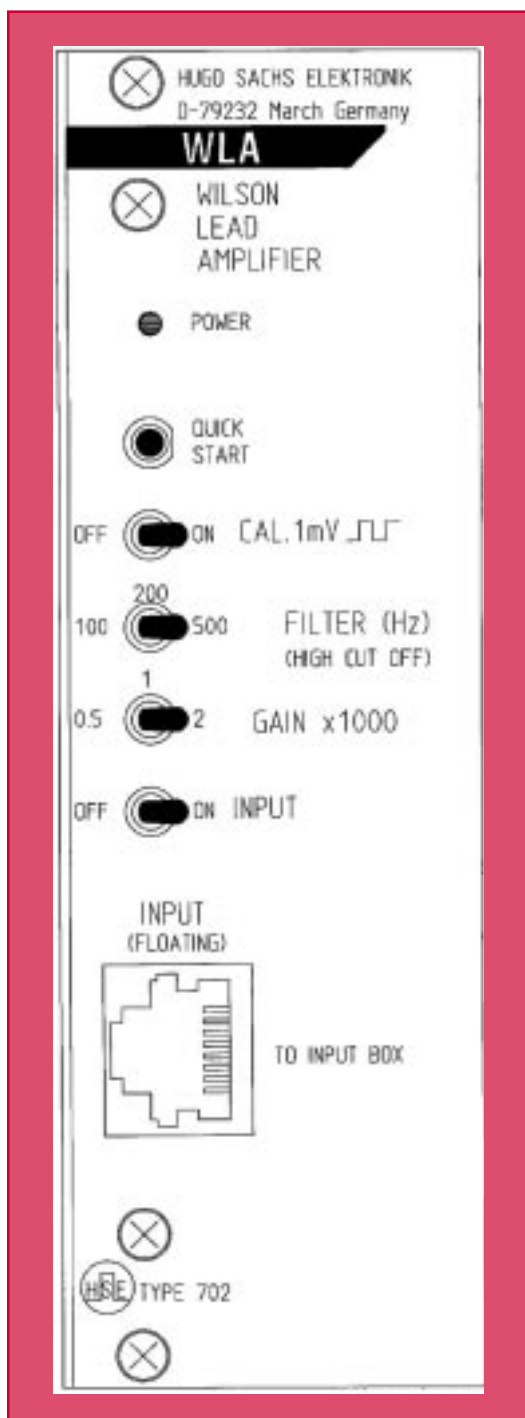
HSE-Harvard Wilson Lead Amplifier Module (WLA)

- Amplifier for unipolar chest lead potentials (requires the EGM module)
- 12 lead-ECG in combination with EGM module (I, II, III, aVR, aVL, aVF, V1, V2, V3, V4, V5, V6)
- Floating input
- Frequency range suitable for all species from mouse up to large animals

The WLA module Type 702 is used for capturing and amplifying unipolar ECG chest lead potentials after Wilson in the PLUGSYS system. Up to 6 chest electrodes (V1 to V6) can be connected.

IMPORTANT: Correct recording of the Wilson unipolar chest electrode potentials requires the central reference signal (Central Terminal Point, CTP) which is formed from the bipolar extremity leads after Einthoven. Using the WLA therefore requires the EGM module Type 701 which provides the CTP signal. The necessary link between the two modules is provided by the input box.

The WLA module has isolated input amplifiers in order to avoid hum interference. In this way the inputs are isolated electrically from the output circuits and from the housing. The 6 output voltages of the different chest leads can be switched through jumpers to the PLUGSYS system bus. From the system bus they can be picked off by a ROM module (Recorder Output Module, e.g. ROM-DL) for direct recording or for data acquisition by computer. A square-wave calibration generator with a 1 mV amplitude is incorporated for calibrating the amplitudes.



Specifications

Input Leads	V1, V2, V3, V4, V5, V6 and CTP Note: CTP = Central Terminal Point = Reference Signal (additional output on EGM Module, Type 701)
ECG Leads	6 unipolar chest leads after Wilson; V1 to V6
Input Circuit	Isolated input circuit (floating input), isolating voltage 200 V DC max.
Input Impedance	10 ⁷ Ω
Filter:	
Low-Pass Filter	100 Hz, 200 Hz and 500 Hz
High-Pass Filter	0.1 Hz, fixed
Gain:	
Setting x0.5	500
Setting x1	1000
Setting x2	2000
Calibration	Square-wave signal 1 mV 2 Hz (120/min); calibration signal is activated with switch
Recording Outputs	Output signals of 6 ECG leads are linked by jumpers to PLUGSYS bus system; link to recorder is provided by Recorder Output Module (ROM) installed in PLUGSYS system
Supply	5 V 1.2 mA from PLUGSYS system bus
Dimensions, H x W x D	128.7 x 40.4 x 220 mm (5.1 x 1.6 x 8.7 in)
PLUGSYS Width	2 slot units
Connector	96-pin VG connector to DIN 41612, 8-pin RJ-45
Weight	430 g

Catalog No.	Model
CGS 8368.71	WLA Lead Amplifier
CGS 8412.71	Input Box Type for EGM and WLA