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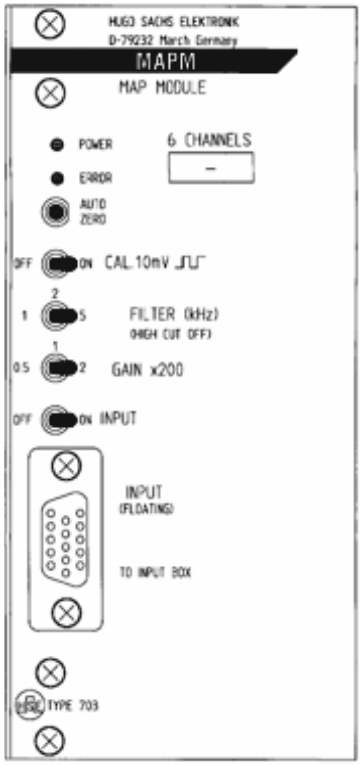
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Find the *Harvard Apparatus / Hugo Sachs 703* at our website: *Click HERE*

Bioelectric Signal Amplifier modules

MAPM



Monophasic Action Potential Module type 703

The MAP module Type 703 is used for capturing and amplifying monophasic action potentials (MAPs). It has to be connected to special MAP electrodes. This module incorporates 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 output voltages of the amplified MAP signals can be switched with 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 10 mV amplitude is incorporated for calibrating the amplitudes.
Inputs: A special connection box is recommended for connecting the MAP electrodes, with separate switch-off facility for the individual channels. The connection box has to be placed close to the electrodes so that the unscreened electrode leads can be kept as short as possible. The box is not part of the module and has to be ordered separately.

Description

Amplifier type	DC amplifier with automatic zeroing, 6 channels
Input circuit	differential inputs, isolated (floating input), isolating voltage 200 V DC max.
Input impedance	when switched on (INPUT ON): 1010 Ohm when switched off (INPUT OFF): 5000 Ohm approx.
Common mode suppression	better than 1 in 50 000 at 50 Hz
Zeroing	voltage range ±200 mV referred to the particular input resolution: 0.1mV
Filter	low-pass filter 1 kHz, 2 kHz and 5 kHz
Gain	setting x0.5: 100 setting x1: 200 setting x2: 400
Calibration	square-wave signal 10 mV 2 Hz (120/min). The calibration signal is activated with a switch.

Outputs	the output signals of the 6 MAP signals are linked by jumpers to the PLUGSYS bus system. The link to the display unit is provided by a Recorder Output Module (ROM) installed in the PLUGSYS system.
Supply	5 V 1.2 mA from the PLUGSYS system bus
Dimensions	module for the PLUGSYS housing, width: 12 E (60.6 mm), height: 3 U (128.7 mm), depth: Eurocard (220 mm)
Connector	96-pin VG connector to DIN 41612 submin-D 15-HD
Weight	0.5 kg
Input box:	(order separately) input box with 6 differential inputs, sockets suitable for 2 mm dia. plug pins, including approx. 2 m connecting cable.

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