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Action Potential Modules



Monophasic Action Potential Modules
The MAP module Type 703 is for capturing and amplifying monophasic action potentials (MAPs) in the PLUGSYS system. 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.

Item#	Description
731780	Monophasic Action Potential Module (MAPM), 6-Channel
733080	Monophasic Action Potential Module (MAPM), 3-Channel
731787	Input Box for Monophasic Action Potential Module (MAPM)
731788	Input Box for 2 Monophasic Action Potential Modules (MAPM)

Full Description

The MAP module Type 703 is for capturing and amplifying monophasic action potentials (MAPs) in the PLUGSYS system. 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 Recorder Output Module (ROM) for direct recording or a DAQ Hardware PLUGSYS 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 required 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.

Specifications

Specifications	731780	733080	731787	731788
Amplifier Type	DC amplifier with automatic zeroing, 6 channels	DC amplifier with automatic zeroing, 6 channels		
Calibration	Square-wave signal 10 mV 2 Hz	Square-wave signal 10 mV 2 Hz		
Commond Mode Rejection	Better than 1 in 50,000 at 50 Hz	Better than 1 in 50,000 at 50 Hz		
Connector	96-pin VG connector to DIN 41612 submin-D 15-HD	96-pin VG connector to DIN 41612 submin-D 15-HD		
Filter	Low-pass filter: 1 kHz, 2 kHz and 5 kHz	Low-pass filter: 1 kHz, 2 kHz and 5 kHz		
Gain	Setting x0.5 - 100; Setting x1 - 200; Setting x2 - 400	Setting x0.5 - 100; Setting x1 - 200; Setting x2 - 400		
Input Box	(Order separately) input box with 6 differential inputs, sockets suitable for 2 mm dia. plug pins, including approx. 2 m connecting cable	(Order separately) input box with 6 differential inputs, sockets suitable for 2 mm dia. plug pins, including approx. 2 m connecting cable		
Input Circuit	Differential inputs, isolated (floating input), isolating voltage 200 V DC max.	Differential inputs, isolated (floating input), isolating voltage 200 V DC max.		
Input Impedance	When switched on (INPUT ON): 1010? When switched off (INPUT OFF): 5000? approx.	When switched on (INPUT ON): 1010? When switched off (INPUT OFF): 5000? approx.		
Output	Output signals of 6 MAP signals are linked by jumpers to PLUGSYS bus system; link to display unit is provided by Recorder Output Module (ROM) installed in PLUGSYS system	Output signals of 6 MAP signals are linked by jumpers to PLUGSYS bus system; link to display unit is provided by Recorder Output Module (ROM) installed in PLUGSYS system		
PLUGSYS Width*	3 slot units	3 slot units		
Power Supply	5 V 1.2 mA from PLUGSYS system bus	5 V 1.2 mA from PLUGSYS system bus		
Zeroing	Voltage range ±200 mV referred to particular input resolution: 0.1 mV	Voltage range ±200 mV referred to particular input resolution: 0.1 mV		

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