ME2100-System

Technical Specifications

General Characteristics	
Operating temperature	10 °C to 50 °C
Storage temperature	0 °C to 50 °C
Relative humidity	10 % to 85 % , non-condensing
Headstages	up to 8 headstages can be connected
Length of the cable	Optional: 3 m, 5 m or 10 m
ME2100-HS32-S and **ME2100-HS32-M**	Please read also: ME2100-HS32-S / -M_Datasheets
ME2100-µPA16 and **ME2100-µPA32**	Please read also: ME2100-µPA16 / 32_Datasheets
Integrated Amplifier	
Number of analog recording channels	32
Ground input	1 additional ground input
Reference inputs	Freely selectable reference inputs or fixed references on channel 8, 16, 24 or 32
Data resolution	24 bit
Signal input voltage range	± 240 mV / 250 mV (ME2100-HS32-S / -M); ± 250 mV (ME2100-µPA16 / 32)
Bandwidth	DC to 10 kHz, software controlled
Sampling frequency per channel	up to 50 kHz, software controlled
Input impedance	470 MΩ || 10 pF (ME2100-HS32-S / -M); 1 GΩ @ 1 kHz (ME2100-µPA16 / 32)
Intergated Stimulus Generator: ME2100-HS32-S and ME2100-HS32-M only!	
Output current	± 1.5 mA @ ± 16 V compliance voltage
Output voltage	± 10 V @ ± 20 mA max. compliance current
Stimulation pattern	User customizable patterns
Number of stimulation channels	32 (each channel can be used for stimulation, 2 channels can be used for external stimulation).
Resolution	16 bit
External Stimulation: ME2100-HS32 only!	
1 Output connector	6-pin connector (Preci-dip series 853, 1.27 mm grid, 0.44 mm round pin)
Signal Collector Unit SCU	up to 2 Signal Collector Units can be connected
Dimension (W x D x H)	250 mm x 83 mm x 25 mm
Weight	300 g
4 Inputs for headstages (HS1 to HS 4)	Lemo connector, EPG.0B.307.HLN
1 Connector with 4 analog outputs for LED driver	Lemo connector, EPG.0B.304.HLN
Voltage output of each analog output	0 - 5 V
2 Signal Collector Unit to Interface Board connectors	External power over iX-industrial cable, type B
1 64-Channel Analog Out connector	68-pin MCS standard connector, Honda-PCS-XE68LFD

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Multi Channel Systems
MCS GmbH
Aspenhaustrasse 21
72770 Reutlingen
Germany

Phone +49-7121-909 25- 0
Fax +49-7121-909 25-11

sales@multichannelsystems.com
www.multichannelsystems.com

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Technical Specifications

Interface Board IFB-C Multiboot	
Dimensions (W x D x H)	250 mm x 83 mm x 25 mm
Weight	300 mg
Front Panel	
2 Sync IN and Sync OUT	Lemo connector, EPL.00.250 NTN
1 8-Channel Analog IN	10-pin connector, DIL10Header-100mil
2 Analog Inputs, Channel 1 and Channel 2	Lemo connector, EPL.00.250 NTN
Signal input range for analog channels	±10 V voltage input range @ 24 bit ADC
Gain for analog channels	2
2 LEDs	LED light is on, while link to SCU is working
4 Digital Inputs	Lemo connector, EPL 00250 NTN
4 Digital Outputs	Lemo connector, EPL 00250 NTN
1 Ground	Common jack 4 mm, banana plug
Rear Panel	
I / O	Switch On / Off
1 Power supply	MPU 30, PWR DC 0.65 x 2.75 mm
1 Ground	Common jack 4 mm, banana plug
1 16 bit Digital In / Out	68-pin MCS standard connector, Honda-PCS-XE68LFD
2 Auxiliary channels (Not in use!)	Lemo connector, EPL.00.250 NTN
1 Audio output	Stereo jack 3.5 mm
1 JTAG DSP	14-pin JTAG connector, DIL14Header-100mil-angeled
2 IFB-C to SCU connectors	External power over iX-industrial cable, type B
2 USB-C ports	USB-C A and USB-C B
Power Supply Unit	
Voltage range	100 - 240 VAC
Output voltage	24 VDC
Max. power	60 W
Frequency	50 - 60 Hz
Mark of conformity	CE
European standard	EN61010-1
Software	
Operating system: Microsoft Windows ®	Windows 10, 8.1 (32 or 64 bit),
Multi Channel Suite software package:	
Multi Channel Experimenter	Version 2.17.6 and higher
Multi Channel Analyzer	Version 2.17.6 and higher
Multi Channel DataManager	Version 1.13.3 and higher

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