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ME2100-HS32-M 32-Channel Headstage for ME2100-System

Technical Specifications

ME2100-HS32-M

0 ° to 50 °C 0 ° to 50 °C 10 % to 85 % non-condensing

50 mm x 72.5 mm x 8 mm

Optional: 3 m, 5 m or 10 m 50 g 20 N

Dual-row precision socket, 50 mil (1.27 mm) grid pattern, 0.35 ± 0.45 mm round pins

Integrated Amplifier

Operating temperature Storage temperature

Dimensions (W x D x H)

Length of the cable

Input connector type

Weight w/o cable

Relative humidity

Number of analog recording channels

Maximum tensile strength of the cable

Data resolution Bandwidth

Туре

Signal input voltage range Input impedance Input noise

Sampling frequency per channel

Integrated Stimulus Generators

Output voltage Output current Resolution

Stimulation pattern Number of stimulation channels

Number of reference electrodes

External Stimulation

1 Output connector

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32

24 bit DC to 10 kHz, software selectable

± 250 mV 470 MΩ || 10 pF $< 0.7 \ \mu V_{_{RMS}}$ (1 Hz to 3.5 kHz, inputs connected to ground)

up to 50 kHz, software controlled

± 10 V @ ± 20 mA max. compliance current ± 1.5 mA @ ± 16 V complicance voltage 16 bit

User customizable patterns 32 (each channel can be used as stimulation channel) 2 channels can be used for external stimulation 4 predefined reference electrodes

6-Pin connector for 2 independent stimulation patterns

preci-dip series 853, 1.27 mm grid, 0.44 mm round pins

+49-7121-909 25-0



ME2100-HS32-M 32-Channel Headstage for ME2100-System

Adapter for the ME2100-HS32-M Headstage: ADPT-FM-32 ADPT-FM-72 ADPT-NN-32

Setup: Adapter ADPT-FM-72 and two ME2100-HS32-M

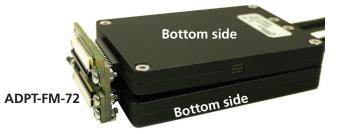
Setup: Adapter ADPT-FM-32 and ME2100-HS32-M



The adapter ADPT-FM-36 is necessary for use of FlexMEA36 probes.

If the adapter ADPT-FM-32 is connected as shown on the foto to the top side of the **ME2100-HS32-M**, the **Flex-MEA36** must be inserted with the electrodes and contact pads facing downward.

Please read also the datasheet of the FlexMEA36 and the datasheet of the adapter ADPT-FM-32



The adapter ADPT-FM-72 is necessary when using two ME2100-HS32-M headstages and FlexMEA72 probes.

Both **ME2100-HS32-M** headstages must be inserted with the their top sides facing to each other (to the inner part of the adapter **ADPT**-FM-72) and the bottom sides facing outwards.

Please read also the datasheet of the FlexMEA72 and the datasheet of the adapter ADPT-FM-72.

Setup: Adapter ADPT-NN-32 and ME2100-HS32-M

The adapter ADPT-NN-32 is necessary when using 32-electrode NeuroNexus probes. Please connect the ME2100-HS32-M headstage Bottom with the bottom side up to the top side of the side adapter ADPT-NN-32 as shown on the picture. Please read also the datasheet of the ADPT-NN-32 and the datasheet of the respective 36-electrode ADPT-NN-32 NeuroNexus probe. Top side

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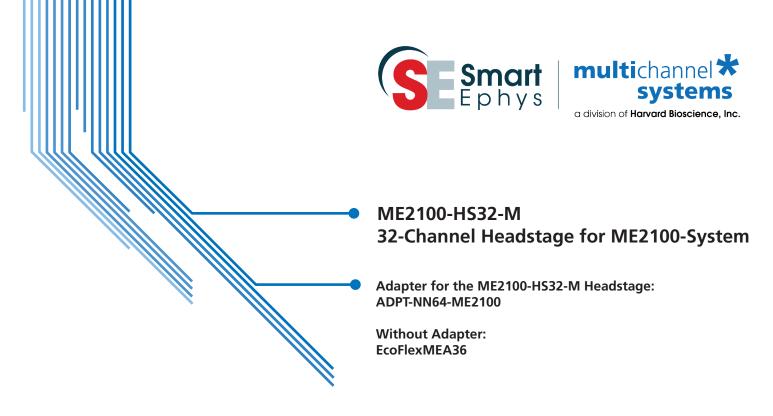
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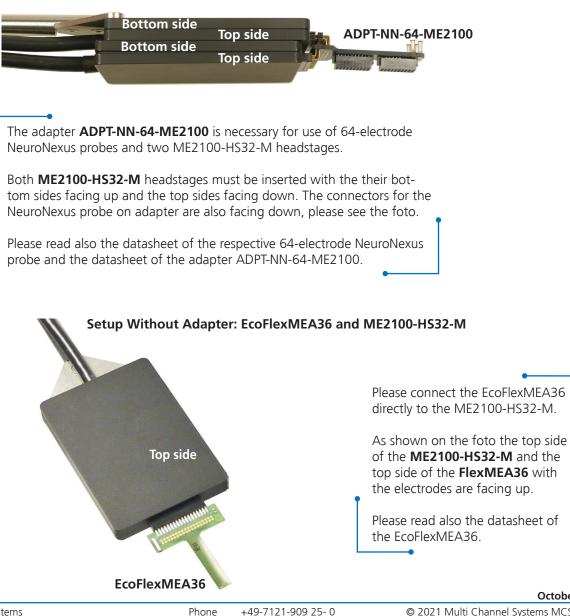
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Setup: Adapter ADPT-NN-64-ME2100 and two ME2100-HS32-M



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