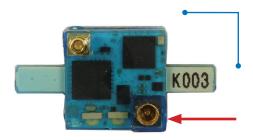




W2100-HS16 Headstage

W2100-Headstage for Use with the W2100-System



Advantages

Germany

- Small-sized headstage with integrated A/D converter and LED lights for video tracking.
- The W2100-System converts the recorded signals into digital data already on the headstage.
- The signal-to-noise ratio is excellent and most important, independent from the distance between sender and receiver.
- The headstage is equipped with a triaxial gyroscope and a triaxial accelerometer by default.

W2100-HS16 top side

Please use the connector for the storage battery in the lower right for orientation of the headstage.

Applications

The W2100 headstage is the ideal solution for the measurement of spikes, LFP, EEG, ECG, EMG, and ECoG. Additional inputs to the interface board allow the synchronization of the data with external devices.

Gyroscope and Accelerometer

The W2100 headstage is equipped with triaxial gyroscope and accelerometer sensors, which allow synchronisation with electrophysiological data.

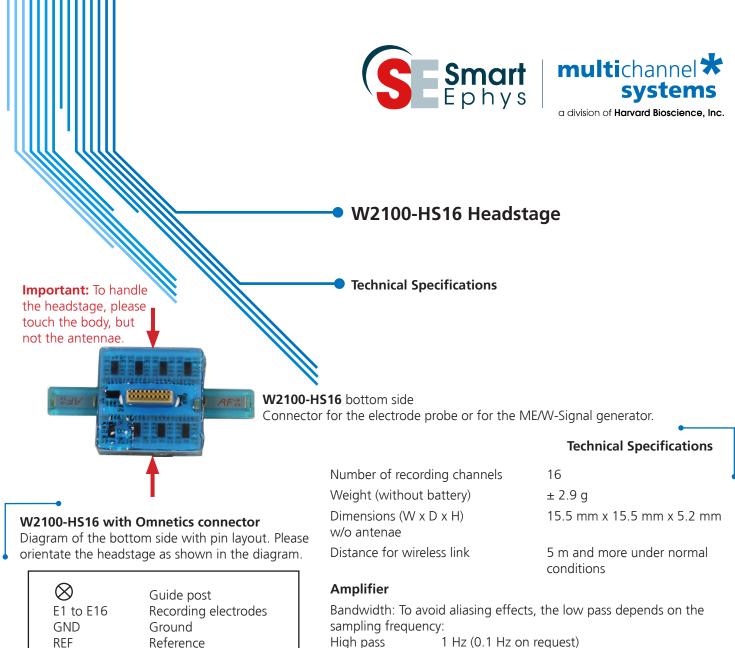


Page 1

© 2019 Multi Channel Systems MCS GmbH a division of Harvard Bioscience, Inc.

sales@multichannelsystems.com www.multichannelsystems.com

Product information is subject to change without notice.



Low pass

Resolution

Input noise

Gain

@ Sampling rate

Input impedance

Input voltage range

Sampling rate (max.) in kHz

Single Headstage Mode

Multi Headstage Mode

Gyroscope, triaxial

Software

Accelerometer, triaxial

Data acquisition, analysis

Inertial Measurement Unit

400 Hz

800 Hz

1 kHz

1 GΩ || 10 pF

@ 1 kHz @ 2 kHz @ 5 kHz @ 10 - 40 kHz

101

16 bit

± 12.4 mV

REF	Reference
	4 E12 E10 E8 E6 E4 E2 ⊗ 8 E11 E9 E7 E5 E3 E1 GND
	Storage battery connector for orientation on the opposite side.

Connector for this Headstage Omnetics socket A79039-001

This Omnetics connector mates with Omnetics connectors such as: Through-Hole: A79038-001 (NPD-18-DD-GS) Horizontal Surface Mount: A79040-001 (NPD-18-AA-GS) Vertical Surface Mount: A79042-001 (NPD-18-VV-GS) Cable: A79044-001

Multi Channel Systems MCS GmbH Aspenhaustrasse 21 72770 Reutlingen Germany Phone +49-7121-909 25- 0 Fax +49-7121-909 25-11

and export software

Operating system

sales@multichannelsystems.com www.multichannelsystems.com

 $< 1.9 \ \mu V_{RMS}$ Number of channels simultaneously 2 4 8 16 40 40 25 25 10 5 10 10 ± 8 g @ 16 bit resolution

5 kHz

± 8 g @ 16 bit resolution 1000 °/s @ 16 bit resolution

Windows ® 10, 8.1 (64 bit) Multi Channel Suite Version 1.5.1 and higher

April 2019 Page 2

© 2019 Multi Channel Systems MCS GmbH a division of Harvard Bioscience, Inc.

Product information is subject to change without notice.