

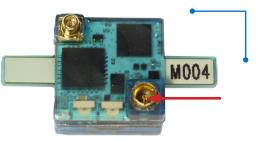


W2100-HS8 Headstage

W2100 Headstage for Use with the W2100-System

Advantages

- 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.

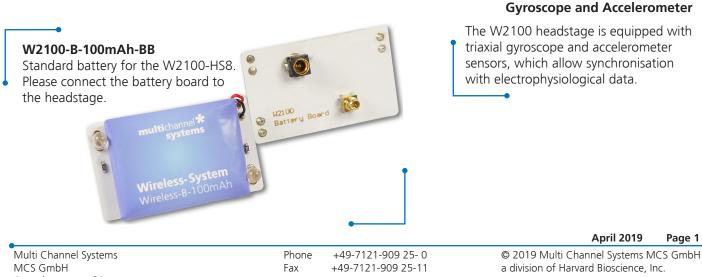


W2100-HS8 top side

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

Applications

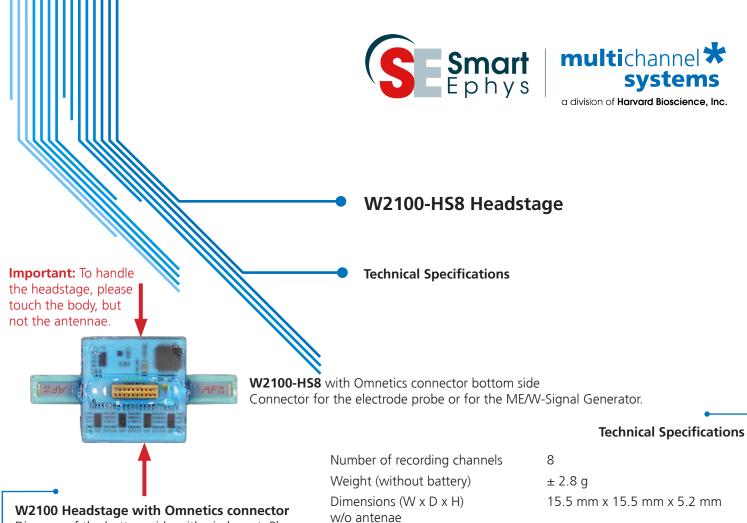
The W2100 headstage is the ideal solution for the measurement of spikes, LFP, EEG, ECG, EMG, and ECoG. Additional inputs to the interface board allow the synchronization of the data with external devices.



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Product information is subject to change without notice.



W2100 Headstage with Omnetics connector

Diagram of the bottom side with pin layout. Please orientate the headstage as shown in the diagram.

NC E1 to E8 GND REF	Guide post Not connected Recording electrodes Ground Reference					
REF E1 E2	NC NC NC NC NC NC 🚫 E3 E4 E5 E6 E7 E8 GND					
Storage battery connector for orientation on the oppposite side.						

Connector for W2100-HS8 with Omnetics Connector A79039-001

This Omnetics connector mates with Omnetics connector 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

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conditions

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Distance for wireless link

Amplifier							
Bandwidth: To avo sampling frequence	-	effects, the	low pass	depends o	n the		
	1 Hz (0.1 Hz on request)						
Low pass	400 Hz	800 Hz	1 kHz	5 kHz			
@ Sampling rate	@ 1 kHz	@ 2 kHz	@ 5 kHz	@ 10 - 40 kHz			
Gain		10	101				
Input impedance			1 GΩ 10 pF				
Resolution			16 bit				
Input voltage range			± 12.4 mV				
Input noise			< 1.9 μV _{RMS}				
Sampling Rate (max.) in kHz			Number of channels simultaneously				
		2		4	8		
Single Headstage Mode)	40	25		
Multi Headstage Mode)	10	10		
Inertial Measurer	ment Unit						
Gyroscope, triaxial			8g @ '	g @ 16 bit resolution			
Accelerometer, triaxial			1000 °/s @ 16 bit resolution				
Software							
Operating system			Windows ® 10, 8.1 (64 bit)				
Data acquisition, analysis			Multi Channel Suite				
and export software			Version 1.5.1 and higher				
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