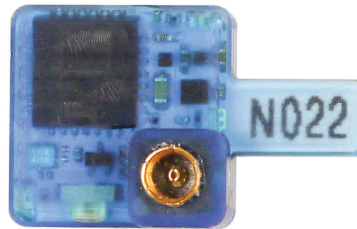


**W2100-HS4 Headstage**

**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.



**W2100-HS4 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.

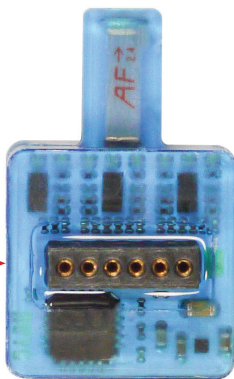
**W2100-B-30mAh-BB**

Standard battery for the W2100-HS4. Please connect the battery board to the headstage.



● **W2100-HS4 Headstage**

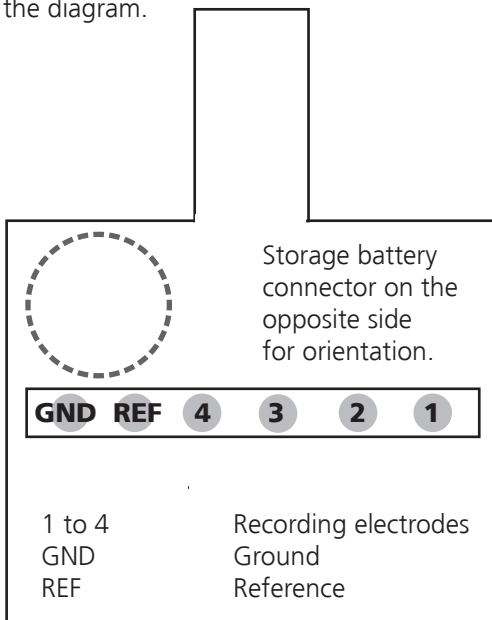
● **Technical Specifications**



**W2100-HS4** bottom side  
Connector for the electrode probe or for the ME/W-Signal Generator.

**Important:** To handle the headstage, please touch the body, but not the antenna.

**W2100-HS4 with Single Row Connector**  
Diagram of the bottom side with pin layout. Please orientate the headstage as shown in the diagram.



**Connector for this Headstage**  
**single row precession socket**  
(1.27 mm, round pin)  
**Preci-Dip 851-87-006-10-001101**

The connector mates with a standard single row 1.27 mm pin connectors such as: Preci-Dip 850-10-006-10-001101

**Technical Specifications**

Number of recording channels	4
Weight (without battery)	± 1.8 g
Dimensions (W x D x H) w/o antenna	12.5 mm x 12.5 mm x 5.5 mm
Distance for wireless link	5 m and more under normal conditions

**Amplifier**

Bandwidth: To avoid aliasing effects, the low pass depends on the sampling frequency:

High pass	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	101
Input impedance	1 GΩ    10 pF
Resolution	16 bit
Input voltage range	± 12.4 mV
Input noise	< 1.9 μV <sub>RMS</sub>

**Sampling rate (max.) in kHz**      Number of channels simultaneously

	<b>2</b>	<b>4</b>
Single Headstage Mode	40	25
Multi Headstage Mode	10	10

**Software**

Operating system	Windows ® 10, 8.1 (64 bit)
Data acquisition, analysis and export software	Multi Channel Suite Version 1.5.1 and higher