

## Wireless Recording System W4-, W8-, W16-, W32-System

### Technical Specifications

#### General Characteristics

Operating temperature	10 °C to 50 °C
Storage temperature	0 °C to 70 °C
Relative humidity	10 % to 85 % , non-condensing

#### Headstage

Dimensions (W x D x H)	W4-HS	13 x 13 x 5 mm (+ antenna)
	W8-HS	16 x 16 x 5 mm (+ antennae)
	W16-HS	16 x 16 x 6.5 mm (+ antennae)
	W32-HS	16 x 16 x 7.5 mm (+ antennae)
Weight	W4-HS	approx. 1.9 g (+ battery)
	W8-HS	approx. 2.9 g (+ battery)
	W16-HS	approx. 3.6 g (+ battery)
	W32-HS	approx. 3.7 g (+ battery)

#### Integrated Amplifier

Gain	101
Bandwidth	1 Hz to 5 kHz (0.1 Hz on request)
Resolution	16 bit
Input impedance	1 GΩ    10 pF
Input voltage range	+ / - 12.4 mV
Distance for wireless link	5 m guaranteed (under normal circumstances)

#### Sampling rate

Sampling Rate in kHz/channel	Number of selected channels				
	2	4	8	16	32
W4-HS	40	20			
W8-HS	40	40	20		
W16-HS	20	20	20	10	
W32-HS	10	10	10	10	5

## Wireless Recording System W4-, W8-, W16-, W32-System

### Technical Specifications

#### Storage Battery

Storage battery  
Storage battery life until recharge (100 mAh)

Lithium polymer, rechargeable  
4 channels: 3.5 hours (recording @ 20 kHz)  
8 channels: 2 hours (recording @ 20 kHz)  
16 channels: 2 hours (recording @ 10 kHz)  
32 channels: 1.3 hours (recording @ 5 kHz)  
for all channels: 80 days in stand by mode

Dimension of battery

30 mAh battery: 17 x 11 x 3 mm  
100 mAh battery: 26 x 19.5 x 2.3 mm  
200 mAh battery: 26 x 20 x 4.5 mm  
300 mAh battery: 27.5 x 19.5 x 5 mm

Weight of battery

30 mAh battery: approx. 1.2 g  
100 mAh battery: approx. 3.5 g  
200 mAh battery: approx. 4.6 g  
300 mAh battery: approx. 6.8 g

#### Receiver

Dimensions (W x D x H)  
Dimension of antenna  
Frequency band  
Impedance of antennae

126 mm x 84 mm x 35 mm without antennae  
110 mm x 10 mm (length x diameter)  
2.4 GHz frequency band  
50 Ohm

#### Interface Board

Dimensions (W x D x H)  
Interface connection

115 mm x 84 mm x 35 mm  
USB 2.0 High Speed

#### Recharging Device

Dimensions (W x D x H)  
Period of charging  
Power

55 mm x 20 mm x 10 mm  
1 to 2 hours  
USB powered

#### Software

Operating system

Microsoft Windows 10, 8.1, and Windows 7  
(32 or 64 bit), XP or Vista with NTFS  
English and German version supported

MC\_Rack: Data acquisition and analysis program  
MC\_DataTool: Data export software

Version 4.3.0 and higher  
Version 2.6.2 and higher