

12. Technical data

General data

Parameter	Value	Measurement conditions
Temperature range	0..+40 °C	Operation
	-20..+60 °C	Transport
	5..35 °C	Storage
Humidity	<80 %	
Dimensions (length x width x depth)	165 x 92 x 35 mm	
Weight	266 g	With batteries
	220 g	Without batteries
Power supply	2 x AA (R6): alkaline or NiMH batteries	
Supply voltage	2.1..3.2V	
Power consumption	100 mW typ.	No transmission to PC and medium loudness in phones
	270 mW max.	Transmission to PC at 115kb/s and maximal loudness
Battery lifetime (typical)	73 h	Alkaline (2800mAh)
	40 h	NiMH (1800mAh)

Measurement subsystem

Number of channels	1 differential			
Measurement range	±150 µV			
Equivalent input noise level	0.95 µVpp	In band 1..40 Hz, with source impedance 10 kΩ and transmission rate 9.6 kb/s		
Measurement resolution	0.073 µV			
Tolerance of differential mains interferences	12 mVpp			
Common mode rejection ratio (CMRR)	≥130 dB	For electrode impedance asymmetry 10 kΩ, at 50 Hz		
Common input impedance	≥30 GΩ	At 50 Hz		
Differential input impedance	1 GΩ 100pF	At 10 Hz		
Analog to digital converter	12 bit			
Sampling frequency	128..1024 Hz			
Max. frequency bandwidth (BWmax) depending on sampling frequency (Fs)	Fs (Hz)	128	256	512-1024
	BWmax (Hz)	40	80	100

Audio subsystem

Number of channels	2 (stereo)	
Digital to analog converter	16 bit	
Sampling frequency	31.25 kHz	
Max. power in earphones	5.7 mW / channel	For load impedance 32 Ω
Load impedance	32 Ω (16..64 Ω)	

IrDA communication

Max. transmission rate	115 kb/s	
Communication range	1 m	