

Technical and Safety Information

Symbols



IEC 60417-5140
RF equipment marked with
Symbol IEC 60417-5140 for
non-ionizing radiation.



This symbol means this is
a Type B Applied Part.



This symbol means
Attention: Consult
Accompanying Documents
(User Instructions)

The SR1 is: Internally Powered Equipment.
A Type B Applied Part Rated for Short Time Operation.

Recommended Operating Conditions

- (A) Ambient temperature range of +10 C to +40 C
- (B) A relative humidity range of 30% to 75%
- (C) An atmospheric pressure range of 700 hPa to 1,060 hPa

Compliance Summary

The SomniResonance Device is a stand-alone technology. It is not part of a medical system. There are no accessories or connector cables for this device.

The SomniResonance Device may affect the normal function of sensitive medical electrical equipment. Do not wear the Device in any area where medical diagnostic or treatment devices are in use.

Do not store the SomniResonance Device on or near a microwave or any electrical or electromagnetic devices. Do not leave the Device on or near any heat producing surfaces or in a wet or moist area such as a bathroom.

Table 1: Manufacturers Declaration: Electromagnetic Emissions

The SR 1 is intended for use in the electromagnetic environment specified below. The customer or the user of the SR 1 should assume that it is used in such an environment.

Emission Test	Compliance	Electromagnetic Environment
RF emissions CISPR-11	Group 1 Class B	The SR 1 uses RF emissions that are very low and are not likely to cause any interference in nearby electronic equipment.
Harmonic emissions IEC 61000-3-2	N/A	N/A
Voltage fluctuations/flicker emissions ICE 61000-3-3	N/A	N/A
RF emissions CISPR 14-1	N/A	N/A
RF emissions CISPR 15	N/A	N/A

Table 2: Manufacturers Declaration: Electromagnetic Immunity

The SR 1 is intended for use in the electromagnetic environment specified below. The customer or the user of the SR 1 should assume that it is used in such an environment.

Immunity Test	Compliance Level
Electrostatic Discharge (ESD) IEC 6100-4-2	+/- 6 kV contact +/- 8 kV air
Electrical fast transient/burst IEC 6100-4-4	+/- 2 kV for power supply lines +/- 1 kV for input/output lines
Surge IEC 6100-4-5	+/- 1 kV line(s) to line(s) +/- 2 kV line(s) to earth
Voltage dips, short interruptions and voltage variations on power supply input lines	< 5% U_r (>95% dip in U_r for 0.5 cycle) < 40% U_r (>60% dip in U_r for 5 cycle) < 70% U_r (>30% dip in U_r for 25 cycle) < 5% U_r (>95% dip in U_r for 5 s)
Power frequency (50/60 Hz) magnetic field IEC 61000-4-5	3 A/m

Table 3: Manufacturers Declaration: Electromagnetic Immunity

The SR 1 is intended for use in the electromagnetic environment specified below. The customer or the user of the SR 1 should assume that it is used in such an environment.

Immunity Test	IEC 60601 Test Compliance Level
Conducted RF IEC 61000-4-6	3 Vrms 150 kHz to 80 MHz
Radiated RF IEC 61000-4-3	3 Vrms 60 MHz to 2.5 GHz

Table 4: Recommended separation distances between portable and mobile RF communications equipment and the SR 1.

The SR 1 is intended for use in the electromagnetic environment in which radiated RF disturbances are controlled. The user of SR 1 can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the SR 1 as recommended below according to the maximum output power of the communication equipment.

Rated maximum output power of transmitter (W)	Separation distance according to frequency of transmitter		
	150 kHz to 80 MHz	80 MHz to 800 MHz	800 MHz to 2.5 GHz
0.01 W	N/A	0.116 W	0.233 W
0.1 W	N/A	0.368 W	0.737 W
1 W	N/A	1.166 W	2.333 W
10 W	N/A	3.689 W	7.378 W
100 W	N/A	11.667 W	23.333 W