


## Electromagnetic compatibility information Blood Pressure Monitor BU 565

Item number: 51207

 **medisana GmbH**  
Carl-Schurz-Str. 2  
41460 NEUSS, DEUTSCHLAND

The ME EQUIPMENT or ME SYSTEM is suitable for home healthcare environments.

### Warning!

Don't use near active HF surgical equipment and the RF shielded room of an ME system for magnetic resonance imaging, where the intensity of EM disturbances is high.

### Warning!

Use of this equipment adjacent to or stacked with other equipment should be avoided because it could result in improper operation. If such use is necessary, this equipment and the other equipment should be observed to verify that they are operating normally.

### Warning!

Use of accessories, transducers and cables other than those specified or provided by the manufacturer of this equipment could result in increased electromagnetic emissions or decreased electromagnetic immunity of this equipment and result in improper operation."

### Warning!

Portable RF communications equipment (including peripherals such as antenna cables and external antennas) should be used no closer than 30 cm (12 inches) to any part of the equipment BU 565, including cables specified by the manufacturer. Otherwise, degradation of the performance of this equipment could result.

### Technical description:

1. All necessary instructions for maintaining BASIC SAFETY and ESSENTIAL PERFORMANCE with regard to electromagnetic disturbances for the excepted service life.
2. Guidance and manufacturer's declaration -electromagnetic emissions and Immunity

# CE 0297

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**Table 1 - Guidance and manufacturer's declaration  
- electromagnetic emissions**


Emissions test	Compliance
RF emissions CISPR 11	Group 1
RF emissions CISPR 11	Class B
Harmonic emissions IEC 61000-3-2	Class A
Voltage fluctuations/ flicker emissions IEC 61000-3-3	Comply

**Table 2 - Guidance and manufacturer's declaration  
- electromagnetic immunity**

Immunity test	IEC 60601-1-2 Test level	Compliance level
Electrostatic discharge (ESD) IEC 61000-4-2	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air	±8 kV contact ±2 kV, ±4kV, ±8 kV, ±15 kV air
Electrical fast transient/burst IEC 61000-4-4	±2 kV for power supply lines ; ±1 kV signal input/ output; 100 kHz repetiti- on frequency	±2 kV for power sup- ply lines ; ±1 kV signal input/output; 100 kHz repetition frequency
Surge IEC61000-4-5	±0.5 kV, ±1 kV differential mode; ±0.5 kV, ±1 kV,±2 kV common mode	±0.5 kV, ±1 kV differen- tial mode; ±0.5 kV, ±1 kV,±2 kV common mode
Voltage dips, short interruptions and volta- ge variations on power supply input lines IEC 61000-4-11	0% U <sub>T</sub> ; 0,5 cycle. At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°. 0% U <sub>T</sub> ; 1 cycle and 70% U <sub>T</sub> ; 25/30 cycles; Single phase: at 0°.0% U <sub>T</sub> ;250/300 cycle	0% U <sub>T</sub> ; 0,5 cycle. At 0°, 45°, 90°, 135°, 180°, 225°, 270° and 315°. 0% U <sub>T</sub> ; 1 cycle and 70% U <sub>T</sub> ; 25/30 cycles; Single phase: at 0°.0% U <sub>T</sub> ;250/300 cycle
Power frequency magnetic field IEC 61000-4-8	30 A/m 50Hz/60Hz	30 A/m 50Hz/60Hz
Conduced RF IEC61000-4-6	3V, 0,15MHz – 80MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz	3V, 0,15MHz – 80MHz 6 V in ISM and amateur radio bands between 0,15 MHz and 80 MHz 80 % AM at 1 kHz
Radiated RF IEC61000-4-3	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz	10 V/m 80 MHz – 2,7 GHz 80 % AM at 1 kHz

NOTE: U<sub>T</sub> is the a.c. mains voltage prior to application of the test level.

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**Table 3 - Guidance and manufacturer's declaration -  
 electromagnetic immunity**

Radiated RF IEC61000-4-3 (Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communi- cations equipment)	Test Frequency (MHz)	Band (MHz)	Service	Modulation	Maximum Power (W)	Distance (m)	IEC 60601-1-2 Test Level (V/m)	Compliance Level (V/m)
	385	380-390	TETRA400	Pulse modulation b) 18Hz	1.8	0.3	27	27
	450	430-470	GMRS 460, FRS 460	FM c) ±5kHz, deviation 1kHz sine	2	0.3	28	28
	710	704-787	LTE Band 13,17	Pulse modulation 217Hz	0.2	0.3	9	9
	745							
	780							
	810	800-960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18Hz	2	0.3	28	28
	870							
	930							
	1720	1700- 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4,25; UMTS	Pulse modulation 217Hz	2	0.3	28	28
	1845							
	1970							
	2450	2400-2570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28	28
	5240	5100- 5800	WLAN 802.11 a/n	Pulse modulation 217 Hz	0.2	0.3	9	9
	5500							
	5785							