OMRON Battery-operated / AC Adapter-operated (or rechargeable) Blood Pressure Monitor Information for Accompanying Documents in the Scope of IEC60601-1-2:2014

Important information regarding Electro Magnetic Compatibility (EMC)

This blood pressure monitor manufactured by OMRON HEALTHCARE Co., Ltd. conforms to IEC60601-1-2:2014 Electro Magnetic Compatibility (EMC) standard. Nevertheless, special precautions need to be observed:

- The use of accessories and cables other than those specified or provided by OMRON could result in increased electromagnetic emission or decreased electromagnetic immunity of the monitor and result in improper operation.
- During measurement, the use of the monitor adjacent to or stacked with other device should be avoided because it could result in improper operation. In case such use is necessary, the monitor and other device should be observed to verify that they are operating normally.
- During measurement, portable RF communications device (including peripherals such as antenna cables and external antennas) should be used no closer than 12 inches (30 cm) to any part of the monitor, including cables specified by OMRON. Otherwise, degradation of the performance of the monitor could result.
- Refer to further guidance below regarding the EMC environment in which the monitor should be used.

Table 1 - EMISSION Limits and Compliance

Phenomenon	EMISSION Limits	Compliance
Conducted and radiated RF EMISSIONS	CISPR 11	Group1, Class B
Voltage fluctuations and flicker	See IEC 61000-3-3	Complies

Table 2 - IMMUNITY TEST LEVELS

Phenomenon	Basic EMC standard	IMMUNITY TEST LEVELS		
Electrostatic discharge	IEC 61000-4-2	±8 kV contact		
		±2 kV,±4 kV,±8 kV,±15 kV air		
		for enclosure port		
Radiated RF electromagnetic fields	IEC 61000-4-3	10 V/m		
		80 MHz to 2.7 GHz		
		80 % AM at 1 kHz		
		for enclosure port		
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	See table 3		
Electrical fast transients / bursts	IEC 61000-4-4	±2 kV for Input a.c. power port		
		100 kHz repetition frequency		
Surges	IEC 61000-4-5	±0.5kV, ±1 kV		
Line-to-line		for Input a.c. power port		
Conducted disturbances induced by RF fields	IEC 61000-4-6	3 Vrms		
		150 kHz to 80 MHz		
		6 Vrms in ISM and amateur radio bands		
		between 150 kHz and 80 MHz		
		80 % AM at 1 kHz		
		for Input a.c. power port		
Rated power frequency magnetic fields	IEC 61000-4-8	30 A/m		
		50 Hz and 60 Hz		
		for enclosure port		
Voltage dips	IEC 61000-4-11	0 % U _τ ; 0.5 cycle		
		At 0°,45°, 90°, 135°, 180°, 225°, 270° and 315°		
		for Input a.c. power port		
		0 % U _τ ; 1 cycle		
		and		
		70 % U_{τ} ; 25/30 cycles single phase: at 0°		
		for Input a.c. power port		
Voltage interruptions	IEC 61000-4-11	0 % U _T ; 250/300 cycle		
		for Input a.c. power port		
NOTE: U_{τ} is the A.C. mains voltage prior to application of the te	st level.			

Table 3 - Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications device

Test frequency (MHz)	Band (MHz)	Service	Modulation	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)
385	380 to 390	TETRA 400	Pulse modulation 18 Hz	1.8	0.3	27
450	430 to 470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz sine	2	0.3	28
710	704 to 787	LTE Band 13, 17	Pulse modulation 217 Hz	0.2	0.3	9
745	-					
780	-					
810	800 to 960	GSM 800/900, TETRA 800,	Pulse modulation 18 Hz	2	0.3	28
870		iDEN 820,				
930		CDMA 850, LTE Band 5				
1720	1700 to 1990	GSM 1800; CDMA 1900;	Pulse modulation 217 Hz	2	0.3	28
1845	_	GSM 1900;				
1970		DECT; LTE Band 1, 3, 4, 25; UMTS				
2450	2400 to 2570	Bluetooth, WLAN, 802.11 b/g/n , RFID 2450, LTE Band 7	Pulse modulation 217 Hz	2	0.3	28
5240	5100 to 5800	WLAN 802.11	Pulse modulation 217 Hz	0.2	0.3	9
5500		a/n				
5785						

EMC tests have included the AC adapter.