

## OMRON Battery-operated Electronic Nerve Stimulator

Applicable models: Refer to EMC product reference table Electronic Nerve Stimulator Information for accompanying documents in the scope of EN60601-1-2:2015

## Important information regarding Electro Magnetic Compatibility (EMC)

This device manufactured by OMRON HEALTHCARE Co., Ltd. conforms to EN60601-1-2:2015 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 device and result in improper operation.
- During measurement, the use of the device adjacent to or stacked with other device should be avoided because it could result in improper operation. In case such use is necessary, the device 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 30 cm (12 inches) to any part of the device, including cables specified by OMRON. Otherwise, degradation of the performance of the device could result.
- Refer to further guidance below regarding the EMC environment in which the device should be used.

## Table 1 - EMISSION Limits and Compliance

Phenomenon	EMISSION Limits	Compliance			
Conducted and radiated RF EMISSIONS	CISPR 11	Group1, Class B			
Note: EMISSION tests for Harmonic distortion, Voltage fluctuations and					

Note: EMISSION tests for Harmonic distortion, Voltage fluctuations and flicker are not applicable due to the internally powered ME equipment.



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
Radiated RF electromagnetic fields	IEC 61000-4-3	10 V/m 80 MHz to 2.7 GHz 80 % AM at 1 kHz
Proximity fields from RF wireless communications equipment	IEC 61000-4-3	See table 3
Conducted disturbances induced by RF fields	IEC 61000-4-6	6Vrms 150 kHz to 80 MHz 80 % AM at 1 kHz
Rated power frequency magnetic fields	IEC 61000-4-8	30 A/m 50 Hz or 60 Hz

Note: IMMUNITY tests for Electrical fast transients / bursts, Surges Line-to-line, Surges Line-to-ground, Conducted disturbances induced by RF fields, Voltage dips and Voltage interruptions are not applicable due to the internally powered ME equipment.



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 土 5 kHz deviation 1 kHz sine	2	0.3	28
710		LTE Band 13, 17	Pulse modulation 217 Hz	0.2	0.3	9
745	704 to 787					
780						
810	800 to 960	GSM 800/900,		2	0.3	28
870		TETRA 800, iDEN 820, CDMA 850, LTE Band 5	Pulse modulation 18 Hz			
930						
1720	1700 to 1990	DECT; 217 Hz			0.3	28
1845			Pulse modulation 217 Hz	2		
1970		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 a/n	Pulse modulation 217 Hz	0.2	0.3	9
5500						
5785						