

OMRON Battery-operated Electronic Fever Thermometer

Information for Accompanying Documents in the Scope of

EN 60601-1-2:2015+A1:2021

Important information regarding Electromagnetic Compatibility (EMC)

This device manufactured by OMRON HEALTHCARE Co., Ltd. conforms to EN 60601-1-2:2015+A1:2021 Electromagnetic 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 to any part of the device, including cables specified by OMRON. Otherwise, degradation of the performance of the device could result.

Table 1 - EMISSION Limits and Compliance

Phenomenon	EMISSION Limits	Compliance
Radiated RF EMISSIONS	CISPR 11	Group1, Class B

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
Rated power frequency magnetic fields	IEC 61000-4-8	30 A/m 50 Hz and 60 Hz for enclosure port
Proximity magnetic fields	IEC 61000-4-39	See table 4

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 Duty 50 %	1.8	0.3	27
450	430 to 470	GMRS 460, FRS 460	FM ± 5 kHz deviation 1 kHz Sine wave	2	0.3	28
694 742 790	694 to 790	MFCN	Pulse modulation 217 Hz Duty 50 %	0.2	0.3	9
710 745 780	704 to 787	LTE Band 13, 17	Pulse modulation 217 Hz Duty 50 %	0.2	0.3	9
810 870 930	800 to 960	GSM 800/900, TETRA 800, iDEN 820, CDMA 850, LTE Band 5 WPT 920 MHz	Pulse modulation 18 Hz Duty 50 %	2	0.3	28
1720 1845 1970	1700 to 1990	GSM 1800; CDMA 1900; GSM 1900; DECT; LTE Band 1, 3, 4, 25; UMTS	Pulse modulation 217 Hz Duty 50 %	2	0.3	28
2450	2400 to 2570	Bluetooth, WLAN 802.11 b/g/n, RFID 2450, LTE Band 7, WPT 2.4 GHz	Pulse modulation 217 Hz Duty 50 %	2	0.3	28
3400 3600 3800	3400 to 3800	Primary band	Pulse modulation 217 Hz Duty 50 %	0.2	0.3	9
5240 5500 5785	5100 to 5800	WLAN 802.11 a/n, 5G	Pulse modulation 217 Hz Duty 50 %	0.2	0.3	9

Table 4 - Test specifications for ENCLOSURE PORT IMMUNITY to proximity magnetic fields

Test frequency	Modulation	IMMUNITY TEST LEVEL (A/m)
30 kHz	CW	8
134.2 kHz	Pulse modulation 2.1 kHz	65
13.56 MHz	Pulse modulation 50 kHz	7.5