



Tamora II

Dynamic Mattress Overlay System

UPRA3478-2

User Manual

Issue 7 – 15/09/2022 UPRA3478-2.UM-6

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1. Introduction

This User Manual contains instructions for the installation, use and maintenance of the Ultimate Healthcare Tamora II dynamic mattress overlay system. You must read and fully understand this manual before using the system.



 Caution: Ultimate Healthcare shall not be liable for any damage or injury caused by failure to follow the proper instructions as described in this User Manual.



 Caution: Before using the dynamic mattress overlay system all staff must familiarise themselves thoroughly with the various parts and controls as detailed in this User Manual.

Note: Ultimate Healthcare reserves the right to modify the information in this User Manual at any time. The information in this User Manual may vary slightly with respect to the basic design of the product.

2. Intended Use

The intended use of this product is to prevent and/or manage pressure ulcers while optimising patient comfort for patients up to 200kg / 31.5 stone.

2.1 Contraindications

• The mattress is not suitable for use on patients with unstable fractures.

3. About the Product

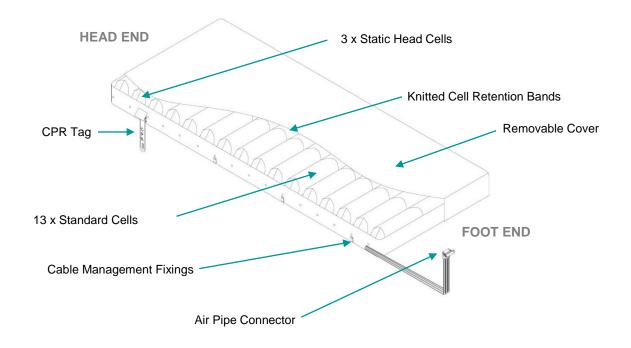
The Tamora II is a lightweight, portable mattress overlay system that is suitable for use in a wide range of care settings from general ward and acute care to private or nursing home care.

The Tamora II is designed to be used on a patients existing mattress or divan bed and can be secured safely in place by *elastic securing straps* which are affixed to the base of the overlay.

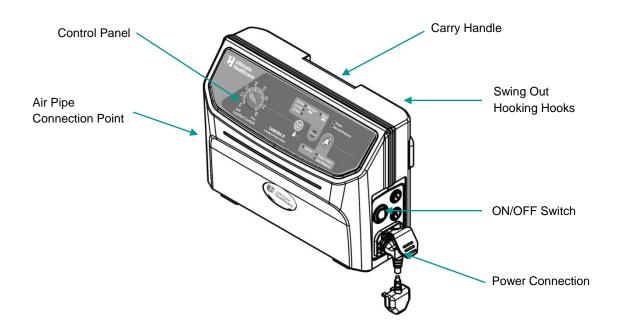
Simple and concise control panel operations allow optimised patient care with a *Comfort Control dial* which allows nursing staff to adjust pressures to suit individual patient requirements and provide enhanced comfort and support whilst maintaining a good level of protection and therapy.

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Mattress Overlay



Power Unit



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4. Symbols and Statements



Note: Indicates tips and advice for the correct use of this product.



Caution: Indicates correct operating or maintenance procedures in order to prevent damage to or destruction of the product or other property.



Warning: Indicates potential danger that requires correct procedures or practises in order to prevent personal injury.



BF symbol, indicates this product is according to degree of protection against electric shock for type BF equipment



The operator must read this document (User Manual) before use.

IP21

Water and dust protection classification.



Disposal of electrical and electronic equipment (WEEE): This product should be handed over to an applicable collection point for the recycling of electrical and electronic equipment.



CE certified.

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5. Important Safety Information

Please read all instructions prior to using any Ultimate Healthcare supplied product. The Tamora II dynamic mattress overlay system must be used in accordance with this User Manual.



The mattress must only be operated by personnel who have been properly trained or have suitable experience with products of this nature.



Ensure a clinical Risk Assessment is conducted, which should take account of the suitability of use of this product, patient's condition, any ancillary equipment in use and the surrounding environment. This should include assessing the use of side rails, head and footboards etc. Pressure settings should be advised or prescribed by a medical practitioner.



Only personnel trained or formally approved by Ultimate Healthcare in operation and maintenance of Ultimate Healthcare products may perform maintenance; modification or repair work on any Ultimate Healthcare supplied product.



Ensure the power cable is not trapped or twisted and is routed suitably to avoid crushing or entrapment when connected to the product.



Do not use your mattress system power unit in the presence of flammable gases. This excludes oxygen cylinders.



Avoid hazards caused by inappropriate handling of the power cable e.g. by kinking, shearing or other mechanical damages.



The power cable for this product must be unplugged from the mains power outlet socket and suitably stowed before moving, cleaning or maintenance activities.



Do not secure mattress straps to removable head or footboards or any fixed (non-moving) parts of a profiling bedframe.



Disconnect from mains (power supply) before cleaning the power unit.



When cleaning do not immerse the power unit in water.



Use only the cleaning and disinfectant agents recommended in this User Manual.



When connecting product after transportation or storage, inspect the power cable visually for any signs of damage. If evident, do not use product and contact Ultimate Healthcare or your local distributor for repair.



When storing, ensure the product is stored away from direct sunlight and extreme cold conditions.



Never block the air openings of this product or place it on a soft surface, such as a bed or couch, where their openings may be blocked. Keep the air opening free of lint, hair, and other similar particles. Air ventilation through the power unit is vital for correct and safe operation.



If this product is used for any activity other than detailed within this User Manual then personal risk to the end user or patient may occur. Ultimate Healthcare shall not be held liable/responsible for such an event.



Do not smoke, or allow the patient to smoke when using this product. Keep all possible ignition sources clear of this product

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6. Technical Specification

6.1 Power unit

Dimensions:	130mm x 320mm x 230mm (D x W X H)
Weight:	3.5 kg
Alternating cycle time:	10 / 15 / 20 mins
Output pressure range:	30 to 70mmHg (+/-5)
Power supply:	AC 230V 50 Hz
Current:	0.12 A
Classification:	Class II, Type BF
Warranty:	2 years
Operation environment:	5°C to 40°C 15%RH ~ 93%RH (no condensation)
Storage environment:	-25°C~70°C ≦93%RH (no condensation)
Environment pressure:	70 kPa-101.3 kPa
Water & dust protection classification:	IP21

6.2 Mattress

Dimensions:	2000mm x 850mm x 130mm (L x W X H)
Weight:	4.9 kg
No of cells:	16
Cover material:	2 way stretch polyester with PU Coated
Bottom material:	PU coated polyester
Max user weight:	200 kg / 31.5 stone

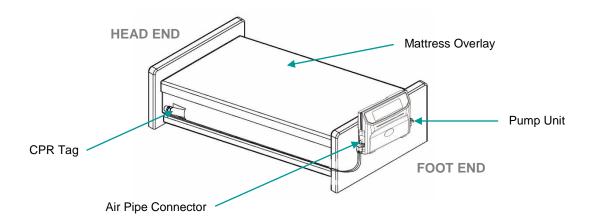
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7. Installation and Set-Up

7.1 Setting up mattress

For the comfort and safety of the patient do not put them onto the mattress overlay until you are sure that the mattress overlay is properly secured and the system indicates that it is fully inflated. The mattress overlay is designed to be placed on an existing base mattress which may be in use on a bed or can also be used on a standard divan bed.

Place the mattress overlay on top of the base mattress, ensuring that the air pipe connector is situated on the bottom left hand side of the bed foot end (as viewed from the foot of the bed). Secure the mattress overlay to the base mattress by utilising the elastic security straps fitted to the base cover of the mattress overlay. These elastic straps should be secured around the base mattress.





Caution: Do not use the Tamora II mattress overlay directly on the bed frame.



Caution: Ensure when fixing the mattress overlay to the bed the security straps are
only fitted to the moving parts of the mattress platform. Straps secured to the fixed
parts of the mattress platform will damage the bed/mattress when operated.

7.2 Setting up power unit

Whilst holding the power unit, unfold the hanging hooks on the rear of the power unit and hang it from the beds footboard. If required the power unit can be placed on the floor at the foot of the bed.



 Caution: Ensure that the power cable is routed in such a manner so that it cannot be twisted, trapped, crushed or stressed.

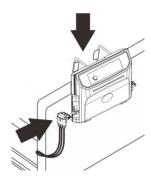
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7.3 Cable management system

Cable management fixings are located on each side of the mattress overlay underneath the flap of the cover. The mains power cable should be secured through the cable management fixing as follows:

- Locate each cable management fixing.
- If necessary, open the press studs.
- Run the mains power cable along the side of the mattress overlay securing each fixing loop around the cable using the press studs.

7.4 Connecting mattress to the power unit



Remove the cover of the air pipe connector and connect the air pipe connector to the power unit and then ensure that the air tubes are free from any kind of obstruction, and are not kinked.

Plug the power cable into a suitable electrical socket and switch 'ON' using mains power switch found at the side of the power unit. All indicators on control panel will light up.

The power unit will start Inflation (inflation mode) and the **Normal Pressure** indicator will flash. Turn the comfort control to the maximum.

Once the mattress overlay is fully inflated, you can then set to the appropriate setting suitable for the patient.



 Caution: The power unit must only be connected to the mattress overlay recommended by the manufacturer. Do not use it for any other purpose.

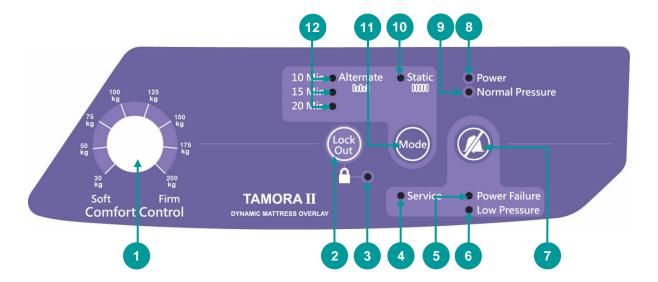


Note: Ensure that the CPR tag is replaced in position over the CPR plugs.

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8. Control Panel Operation Guide

The Control Panel of the power unit is used to make adjustments to the mattress overlay and also indicates fault conditions/service requirements. These are either visual (indicator lights) or audible.



- 1 Comfort Control Dial
- 2 Control Panel Lockout Button
- 3 Control Panel Lockout Indicator
- 4 Service Indicator
- 5 Power Failure Alarm Indicator
- 6 Low Pressure Alarm Indicator

- 7 Alarm Mute Button
- 8 Power Indicator
- 9 Normal Pressure Indicator
- 10 Static Mode Indicator
- 11 Mode Selection Button
- 12 Cycle Time Indicators

8.1 Comfort level

The comfort level adjustment dial allows carers to adjust pressures within a safe pre-set range to provide patients with enhanced comfort or support whilst maintaining a very good level of protection and therapy. Qualified clinical advice must always be taken before adjusting mattress overlay pressures.

When the dial is turned towards *Firm*, the output pressure will increase to provide a higher pressure output and thus increased support.

When the dial is turned towards **Soft**, the output pressure will be decreased to provide a lower pressure output and thus increased comfort.

To check if the pressure is adequately supporting the patient, slide one hand between the mattress overlay and base mattress to feel under the patient's bottom. You should be able to slide the hand inbetween and an acceptable range is approximately 25 to 40 mm (1" to 1-1/2") to ensure the patient Is not bottoming out.

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8.2 Control panel lockout



If the control panel is not used for a period of 30 seconds it will lock out and inhibit the use of the functions. Additionally, if you wish to lock out the control panel press the *Lock Out* button and all functions will be locked. This is to prevent the system being altered accidently.

In order to unlock the control panel, simply press and hold the *Lock Out* button for 3 seconds, the control panel will now be active for use.

8.3 Function mode switch

8.3.1 Alternate



Alternating mode is the default mode for the system. Within this mode the mattress will operate in an alternating 1-in-2 cell cycle. The alternating cycle will continue at the selected cycle time until another mode is selected.

8.3.2 Static



Pressing the *Mode* button until the *Static* indicator illuminates puts the system into *Static* mode.

Within this mode the mattress will maintain a selected constant pressure. After 30 minutes the system will automatically revert back to *Alternating* mode.

8.4 Alternate cycle time selection



The alternating cycle times can be selected to provide an individualised care program for each patient.

Within *Alternating* mode the cycle time can be selected by pressing the *Mode* button. Selections can be made from 10-20 minutes at 5 minute intervals. The cycle time selection will be indicated by the relevant indicator light being illuminated.

8.5 Alarm mute



The *Alarm Mute* button temporarily resets the audible *Low Pressure/Power Failure/Service* alarms. Should the situation not be resolved and the fault condition continues the alarm will resume notifying carer.

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9. CPR Mode

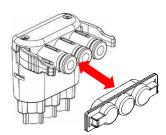


CPR (Cardio Pulmonary Resuscitation) can be performed using the red CPR valve which is situated at the head end on the left hand side of the mattress.

For rapid deflation gently pull and rotate the dial of the CPR valve to 'click' into the OPEN position. At the same time, disconnect the air pipe connector from the power unit to speed up the air release.

If re-inflating the mattress, ensure the dial of the CPR attachment is rotated until it 'clicks' into the CLOSED position.

10. Transport Mode



If the patient is being moved on the mattress overlay, or there is a power cut, general pressure can be maintained in the system for an adequate period of time whilst disconnected from the mains.

Simply disconnect air pipe connector and place the connector cover over it. The air pressures in the mattress overlay will now equalise, but maintain a degree of comfort. This will maintain the cells in their present state for up to 24 hours.

It is important to restore the Tamora II dynamic overlay mattress as quickly as possible by reconnecting the supply tubes to the power unit.

11. Alarms & Fault Findings

The Tamora II is equipped with audible and visual alarm indicators. These alert the user to the status of the available mains supply and any mattress defect.

11.1 Low pressure alarm

Upon detection of low pressure, an audible alarm will be heard and the *Low Pressure* indicator will illuminate. The audible alarm may be cancelled by pressing the *Alarm Mute* button. The *Low Pressure* indicator will continuously illuminate until the low pressure fault condition is resolved.

This condition could be caused, for example, by incorrect fitting of the air pipe connector, opening of the CPR valve or a leak in the mattress due to a cut or puncture.

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11.2 Power failure alarm

If at any time the mains power should be removed from the power unit or the power cable is unplugged without turning the power unit OFF, an audible alarm will be heard and the **Power Failure** indicator will illuminate. The audible alarm may be cancelled by pressing the **Alarm Mute** button.



Note: When the power unit has not been used for more than 3 days, it might require
 30 minutes operating time (or more) for the Alarm to function correctly.

11.3 Service (alternating failure alarm)

Should your system develop a fault condition whilst in use, an audible alarm will be heard and the Service indicator will illuminate. The audible alarm may be cancelled by pressing the *Alarm Mute* button. Should the situation not be resolved and the fault condition continues the alarm will resume. Please contact Ultimate Healthcare or your local service provider.

12. Troubleshooting

PROBLEM	SOLUTION
No lights on power unit	 Check the power unit is connected to the mains power supply and that the mains switch is turned ON. Check power unit for any blown fuses.
Low Pressure indicator is flashing and sounding	 Check to ensure that the CPR tag is securely fitted in place. Check whether power was suddenly shut down. Check that the connection between air tube and power unit is tightly secured. Check that all tubing connections along the mattress are secured. If all of above steps have been checked. Press "Alarm Mute" for system to be verified again.
Power Failure Alarm Indicator is flashing and sounding	Check the power unit is connected to the mains power supply and that the mains switch is turned ON.
Patient is bottoming out (without alarm being triggered)	 Pressure setting might be inadequate for the patient, adjust comfort level to Firm and wait for a few minutes for a better comfort.
The power unit is operating but the mattress is not alternating	 Ensure that the mattress inflation process is complete. Check that the 'Alternate' indicator on the control panel is illuminated. If not, press Mode button to switch to Alternating mode.
Power unit is noisy	Ensure that the power unit is resting against a solid surface.

If the problem persists, contact Ultimate Healthcare or your local service provider.

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13. Cleaning and Decontamination

The following processes are recommended, but should be adapted to comply with the local or national guidelines (Decontamination of Medical Devices) which may apply within the Healthcare Facility of use.

The Tamora II system should be routinely decontaminated between patients and at regular intervals while in use; as is good practice for all reusable medical devices.



- Warning: Disconnect the power unit from the electricity supply before carrying out cleaning/decontamination procedures.
- Do not immerse or soak power unit.

13.1 Basic cleaning information



Caution: Only use disinfectants designed for cleaning healthcare equipment i.e.
 Sodium Hypochlorite or similar (up to 10,000 ppm available chlorine).



- Caution: Do not use abrasives (scouring powder), scourers or other materials/agents which could damage the mattress system.
- Caution: Do not use sodium carbonate or phenol based solutions.
- Caution: Do not use fabric softener or biological washing detergents.
- Caution: Do not immerse the power unit in water.



- Caution: When cleaning/disinfecting, ensure that only a damp cloth is used.
- Caution: After cleaning, dry the mattress out of direct exposure to sunlight.



 Caution: Using inappropriate detergents or disinfectants and not observing the manufacturer's guidelines may result in damage to the mattress which Ultimate Healthcare cannot be held liable for.



 Caution: The appropriate qualified staff must be consulted when specifying a suitable cleaning fluid. Ultimate Healthcare shall not be liable for any damages caused by the use of inappropriate detergents or disinfectants.

13.2 Mattress and cover disinfection

The Tamora II mattress overlay, mattress cover and air pipe cover can be cleaned using the following simple procedures in accordance with your Local Infection Control Policy:

- Liberally swabbing with a damp cloth pre-soaked with hot water at 84°C containing detergent, and then drying.
- Swabbing with a solution of sodium hypochlorite (up to 10,000 parts per million available chlorine) and then drying.



 Caution: Frequent or prolonged exposure to higher concentration disinfectant solutions may prematurely age the fabric cover of mattresses. Surfaces must be protected during use and rinsed and thoroughly dried after application of a disinfectant.

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13.3 Power unit disinfection

The power unit can be cleaned by wiping down with a cloth dampened with hot water at 60°C containing detergent or with sodium hypochlorite (up to 10,000 parts per million available chlorine).

13.4 Cover laundering

The mattress cover and air pipe cover can also be machine washed. Mattress covers and air pipe cover should be completely removed prior to laundering.

Where required mattress covers can be laundered in a pre-wash at 60°C for up to 15 minutes and in a main wash at 84°C for up to 15 minutes. This should be followed by a cold rinse and extraction.

However it is recommended that you check your local policy to determine the time/temperature ratio required to achieve thermal disinfection.

Mattress covers may be tumble dried or air dried. They may be tumble dried on a low heat for up to 90 minutes. Drying temperature must not exceed 40°C.

The mattress cover and mattress must be dry prior to refitting.



 Caution: Exceeding the temperature can cause significant damage to the mattress cover.

14. Storage

The mattress overlay should be loosely rolled lengthwise with the cover innermost, taking care not to strain the air pipe. It should then be placed in in a suitable protective cover with the power unit and stored in an area appropriate for electronic medical devices.

- To quickly extract air out from mattress for storage, pull the CPR tag to remove the CPR plugs and disconnect the air hose connector to release the air.
- Lay the mattress out flat.
- Roll from the head end towards the foot end.
- The foot end strap can then be stretched around the rolled mattress to prevent unrolling.
- The power cord could be wrapped around the power unit bumper or disconnected for storage.



Caution: Do not fold, crease or stack mattresses

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15. Service and Maintenance

It is recommended that this product be part of a routine preventative maintenance schedule with a planned service every 12 months regardless of product usage.

15.1 General

- (1) Check power cable and plug if there are abrasions or excessive wears.
- (2) Check mattress cover for signs of wear or damage. Ensure mattress cover and tubes are stubbed together correctly.
- (3) Check the air hoses for any kink or break. For replacement, please contact Ultimate Healthcare or your local distributor.

15.2 Fuse replacement

- (1) Disconnect the plug from mains power when a blown fuse is suspected.
- (2) Remove the cover of the fuse holder by means of a small screwdriver.
- (3) Insert a new fuse of the correct rating in, and replace the cover of the fuse holder back. The fuse should be rated as T1A.

15.3 Air filter replacement

- (1) Replace the air filter located at the handle on the back of the power unit.
- (2) The filter is reusable and can be washed gently with a mild detergent and water. Dry the filter before use.
- (3) Check and replace air filter regularly if environment is dirty.

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16. EMC Information

Manufacturer's declaration-electromagnetic immunity

The <u>device(s)</u> is intended for use in the electromagnetic environment (for home and professional healthcare) specified below.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment- guidance (for home and professional healthcare environment)
Electrostatic discharge(ESD) IEC 61000-4-2	Contact: ±8 kV Air ±2 kV, ±4 kV, ±8 kV, ±15 kV	Contact: ±8 kV Air ±2 kV, ±4 kV, ±8 kV, ±15 kV	Floors should be wood, concrete or ceramic tile. If floors are covered with synthetic material, the relative humidity should be at least 30%
Electrical fast transient/burst IEC 61000-4-4	± 2kV for power supply lines ± 1kV for input/output lines	± 2kV for power supply lines + 1kV for input/output lines	Mains power quality should be that of a typical home and professional healthcare environment.
Surge IEC 61000-4-5	± 0.5kV, ±1kV line(s) to line(s) ± 0.5kV, ±1kV,± 2kV line(s) to earth	± 0.5kV, ±1kV line(s) to line(s) Not applicable	Mains power quality should be that of a typical home and professional healthcare environment.
Voltage Dips, short interruptions and voltage variations on power supply input lines IEC 61000-4-11	Voltage dips: 0 % Ur; 0,5 cycle 0 % Ur; 1 cycle 70 % Ur; 25/30 cycles Voltage interruptions: 0 % Ur; 250/300 cycle	Voltage dips: 0 % Ur; 0,5 cycle 0 % Ur; 1 cycle 70 % Ur; 25 cycles Voltage interruptions: 0 % Ur; 250 cycle	Mains power quality should be that of a typical home and professional healthcare environment. If the user of the device(s) requires continued operation during power mains interruptions, it is recommended that the device(s) be powered from an
Power frequency(50, 60	30 A/m 50 Hz or 60 Hz	30 A/m 50 Hz	uninterruptible power supply or a battery The device(s) power frequency magnetic fields should be at levels characteristic
Hz) magnetic field IEC 61000-4-8	30 HZ 01 00 HZ	JU FIZ	of a typical location in a typical home and professional healthcare environment.

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Manufacturer's declaration-electromagnetic immunity

The <u>device(s)</u> is intended for use in the electromagnetic environment (for home and professional healthcare) specified below.

The customer or the user of the device(s) should assure that it is used in such and environment.

Immunity test	IEC 60601 test level	Compliance level	Electromagnetic environment-guidance (for home and professional healthcare environment)
Conducted RF	3 Vrms:	3 Vrms:	Portable and mobile RF communications
IEC 61000-4-6	0,15 MHz – 80 MHz	0,15 MHz – 80 MHz	equipment should be used no closer to any
	6 Vrms:	6 Vrms:	part of the device(s) including cables, than the
	in ISM and amateur	in ISM and amateur	recommended separation distance calculated
	radio bands between	radio bands between	from the equation applicable to the frequency of
	0,15 MHz and 80 MHz	0,15 MHz and 80 MHz	the transmitter.
	80 % AM at 1 kHz	80 % AM at 1 kHz	
Radiated RF	10 V/m	10 V/m	Recommended separation distance:
IEC 61000-4-3	80 MHz – 2,7 GHz	80 MHz – 2,7 GHz	$d = 1,2 \sqrt{P}$
	80 % AM at 1 kHz	80 % AM at 1 kHz	d = 1,2 \sqrt{P} 80MHz to 800 MHz d = 2,3 \sqrt{P} 800MHz to 2,7 GHz
			Where P is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer and d is the recommended separation distance in metres (m).
			Interference may occur in the vicinity of equipment marked with the following symbol:

NOTE1 At 80 MHz and 800 MHz, the higher frequency range applies.

NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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Recommended separation distance between portable and mobile RF communications equipment and the device(s)

The <u>device(s)</u> is intended for use in an electromagnetic environment (for home and professional healthcare) in which radiated RF disturbances are controlled. The customer or the user of the <u>device(s)</u> can help prevent electromagnetic interference by maintaining a minimum distance between portable and mobile RF communications equipment (transmitters) and the <u>device(s)</u> as recommended below, according to the maximum output power of the communications equipment.

Rated maximum output power of	Separation distance according to frequency of transmitter m				
transmitter	150 kHz to 80 MHz 80 MHz to 800 MHz		800 MHz to 2,7 GHz		
W	d =1,2√ <i>P</i>	d =1,2√ <i>P</i>	d =2,3√ <i>P</i>		
0,01	0,12	0,12	0,23		
0,1	0,38	0,38	0,73		
1	1,2	1,2	2,3		
10	3,8	3,8	7,3		
100	12	12	23		

For transmitters rated at a maximum output power not listed above, the recommended separation distance d in meters (m) can be estimated using the equation applicable to the frequency of the transmitter, where p is the maximum output power rating of the transmitter in watts (W) according to the transmitter manufacturer.

NOTE1 At 80 MHz and 800 MHz, the separation distance for the higher frequency range applies. NOTE2 These guidelines may not apply in all situations. Electromagnetic propagation is affected by absorption and reflection from structures, objects and people.

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Manufacturer's declaration-electromagnetic immunity Test specifications for ENCLOSURE PORT IMMUNITY to RF wireless communications equipment

The <u>device(s)</u> is intended for use in the electromagnetic environment (for home and professional healthcare) specified below. The customer or the user of the <u>device(s)</u> should assure that it is used in such an environment.

Test frequency (MHz)	Band ^{a)} (MHz)	Service ^{a)}	Modulation ^{b)}	Maximum power (W)	Distance (m)	IMMUNITY TEST LEVEL (V/m)	Compliance LEVEL (V/m) (for home and professional healthcare)
385	380 –390	TETRA 400	Pulse modulation b) 18 Hz	1,8	0,3	27	27
450	430 – 470	GMRS 460, FRS 460	FM c) ±5 kHz deviation 1 kHz sine	2	0,3	28	28
710			Pulse				
745	704 – 787	- 787 LTE Band 13,	modulation b) 217 Hz	0,2	0,3	9	9
780							
810		GSM 800/900,	Pulse modulation b) 18 Hz	2	0,3	28	28
870	800 – 960	TETRA					
930							
1 720	GS	GSM 1800; CDMA	1 1800; CDMA 1900; Pulse GSM modulation b) 1900; 217 Hz DECT;	2	0,3	28	28
1 845	1 700 – 1 990	GSM 1900; DECT; LTE Band 1,					
1 970							
2 450	2 400 - 2 570	Bluetooth, WLAN, 802.11 b/g/n, RFID 2450, LTE Band 7	Pulse modulation b) 217 Hz	2	0,3	28	28
5 240			Pulse modulation b) 217 Hz	0,2	0,3	9	9
5 500	5 100 – 5 800						
5 785							

NOTE If necessary to achieve the IMMUNITY TEST LEVEL, the distance between the transmitting antenna and the ME EQUIPMENT or ME SYSTEM may be reduced to 1 m. The 1 m test distance is permitted by IEC 61000-4-3.

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a) For some services, only the uplink frequencies are included.

b) The carrier shall be modulated using a 50 % duty cycle square wave signal.

c) As an alternative to FM modulation, 50 % pulse modulation at 18 Hz may be used because while it does not represent actual modulation, it would be worst case.

Notes:

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Notes:

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