

L.N. 224 of 2011

**ELECTRONIC COMMUNICATIONS (REGULATION) ACT
(CAP. 399)**

**General Authorisations (Radiocommunications Apparatus)
(Amendment) Regulations, 2011**

IN exercise of the powers conferred upon him by article 36 of the Electronic Communications (Regulation) Act , the Minister for Infrastructure, Transport and Communications, has made the following regulations:-

1. The title of these regulations is the General Authorisations (Radiocommunications Apparatus) (Amendment) Regulations, 2011, and they shall be read and construed as one with the General Authorisations (Radiocommunications Apparatus) Regulations, 2008, hereinafter referred to as “the principal regulations”. Citation.
L.N. 7 of 2008.

2. Immediately before Part I of the principal regulations the following should be added: Adds table of contents.

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ARRANGEMENT OF REGULATIONS

PART I	Preliminary
PART II	General Provisions
FIRST SCHEDULE	General Authorisation for Maritime VHF and EPIRB Ship Stations
SECOND SCHEDULE	General Authorisation for Wireless Access Systems
THIRD SCHEDULE	General Authorisation for 24 GHz and 79 GHz Automotive Short-Range Radar Radiocommunications Apparatus
FOURTH SCHEDULE	General Authorisation for Non-Specific Short-Range Devices
FIFTH SCHEDULE	General Authorisation for Radiocommunications Apparatus intended to be used for Inductive Applications
SIXTH SCHEDULE	General Authorisation for Model Control Radiocommunications Apparatus
SEVENTH SCHEDULE	General Authorisation for Wireless Alarm Systems
EIGHTH SCHEDULE	General Authorisation for Wireless Audio Systems
NINTH SCHEDULE	General Authorisation for DECT User Terminal Apparatus
TENTH SCHEDULE	General Authorisation for Analogue PMR 446

ELEVENTH SCHEDULE	Radiocommunications Apparatus General Authorisation for apparatus using ultra-wideband technology
TWELFTH SCHEDULE	General Authorisation for Radio Frequency Identification (RFID) apparatus operating in the ultra high frequency (UHF) band
THIRTEENTH SCHEDULE	General Authorisation for Radiocommunications Apparatus for tracking, tracing and data acquisition
FOURTEENTH SCHEDULE	General Authorisation for Mobile Communication Services on Aircraft
FIFTEENTH SCHEDULE	General Authorisation for Assistive Listening Apparatus
SISTEENTH SCHEDULE	General Authorisation for apparatus used for the safety related applications of Intelligent Transport Systems
SEVENTEENTH SCHEDULE	General Authorisation for Apparatus used for Tank Level Probing Radars
EIGHTEENTH SCHEDULE	General Authorisation for Apparatus used for Radiodetermination Applications
NINETEENTH SCHEDULE	General Authorisation for Radiocommunications Apparatus used in Healthcare
TWENTIETH SCHEDULE	General Authorisation for Transmit-only Mobile Earth Stations
TWENTY-FIRST SCHEDULE	General Authorisation for Very Small Aperture Terminals (VSAT)
TWENTY-SECOND SCHEDULE	General Authorisation for Low e.i.r.p. satellite Terminals (LEST)
TWENTY-THIRD SCHEDULE	General Authorisation for High e.i.r.p. satellite Terminals (HEST)
TWENTY-FOURTH SCHEDULE	General Authorisation for Aircraft Earth Stations (AES)
TWENTY-FIFTH SCHEDULE	General Authorisation for Earth station on board Vessels (ESV)
TWENTY-SIXTH SCHEDULE	General Authorisation for Road Transport and Traffic Telematics systems (RTTT)
TWENTY-SEVENTH SCHEDULE	General Authorisation for Angle-Modulated Citizens' Band (PR 27) Radiocommunications Apparatus
TWENTY-EIGHTH SCHEDULE	General Authorisation for the Radiocommunications Apparatus comprised in a Wireless Electronic Communication Network
TWENTY-NINTH SCHEDULE	General Authorisation for Dealing in Radiocommunications Apparatus other than Television and Broadcast Receiving
THIRTIETH SCHEDULE	General Authorisation for Communication Receive Only Radiocommunications Apparatus
THIRTY-FIRST SCHEDULE	General Authorisation for Radio Microphones
THIRTY-SECOND SCHEDULE	General Authorisation for Apparatus for Mobile Communication Services on board vessels"

3. Regulation 2(2) of the principal regulations shall be amended as follows:

Amends regulation 2 of the principal regulations.

(a) immediately after the definition “EASA” there shall be added the following new definition:

“ “electronic communications network” has the same meaning as defined in article 2 of the Act which network is used for the provision of publicly available electronic communications services including sound and television broadcasting;”;

(b) immediately after the definition “harmonised standard” there shall be added the following new definition:

“ “ICNIRP ” means International Commission on Non-Ionising Radiation Protection;”;

(c) immediately after the definition “R&TTE Regulations” there shall be added the following new definition:

“ “RF worker ” means any person acting for or on behalf of an undertaking who may be or is exposed to radio frequency (RF) radiation as a direct and necessary requirement of his work;”.

4. In regulation 3 of the principal regulations, for the words “buy, sell, have in his possession or under his control, install and operate” there shall be substituted the words “install or use”.

Amends regulation 3 of the principal regulations.

5. Regulations 5 to 9 of the principal regulations shall be renumbered as regulations 6 to 10 thereof.

Renumbers regulations 5 to 9 of the principal regulations.

6. Immediately after regulation 4 of the principal regulations there shall be added the following new regulation:

Adds new regulation 5 to the principal regulations.

“Exposure to electromagnetic fields.

5. (1) Any person enjoying a general authorisation for any radiocommunications apparatus to which these regulations apply shall comply with any radiation emission standards adopted and published by ICNIRP or any other appropriate standards as may be specified by law or by the Authority.

(2) Any person enjoying a general authorisation for any radiocommunications apparatus to which these regulations apply shall comply with any decision however so described issued by the Authority in relation to electromagnetic radiation and shall ensure that all its radiocommunications apparatus at all times comply with the technical and performance standards generally accepted by the industry or as may be prescribed by the Authority in line with national and European Union law, or accepted by the Authority as being adequate to ensure the limitation of exposure of the general public to electromagnetic fields.

(3) Any person enjoying a general authorisation for any radiocommunications apparatus to which these regulations apply shall ensure that its radiocommunications apparatus is not installed or operated at a location and in a manner such as to be the cause of the aggregate non-ionising radiation emissions exceeding the limits published by the ICNIRP or any other appropriate standards as may be specified by law or by the Authority.”.

Adds new regulations 11 and 12 to the principal regulations.

7. Immediately after regulation 10 as renumbered of the principal regulations, there shall be added the following new regulations:

“Reporting and notification requirements applicable to undertakings.

11. (1) An undertaking which intends to install radiocommunications apparatus comprised in a wireless electronic communications network shall, before doing so, submit to the Authority a detailed report demonstrating the calculated or measured background levels of electromagnetic fields and the predicted increase in the levels of electromagnetic fields in any areas accessible to the general public and to RF workers respectively:

Provided that the said detailed report shall also include such technical information as the Authority may require.

(2) An undertaking shall, by not later than fourteen days following the installation and bringing into operation of radiocommunications apparatus comprised in a wireless electronic communications network, notify such installation and operation to the Authority:

Provided that a modification to any of the characteristics of such installation shall also be subject to the same notification requirement.

(3) The notification under sub-regulation (2) shall be in such form as the Authority may from time to time determine and shall as a minimum include the following:

(a) information on the installation location, including site address, geographical location, height of site above sea level and antenna height above ground level;

(b) contact information of the owner of the site where the installation is located;

(c) information on the type of radiocommunications apparatus and antennas;

(d) technical information of the transmission emanating from the radiocommunications apparatus comprised in a wireless electronic communications network, including operating frequency, maximum conducted transmitting power, antenna gain, maximum effective radiated power, antenna radiation pattern and modulation scheme;

(e) information on the antenna setup such as antenna tilting (electrical and mechanical) and orientation; and

(f) a report showing compliance with regulation 5 of Part II of these regulations.

12. (1) The installation of radiocommunications apparatus comprised in a wireless electronic communications network at sites not owned by the undertaking, shall contain adequate signage to identify the undertaking and the relevant contact information.

Signage requirements
for undertakings.

(2) Undertakings shall place warning signs in clearly visible locations to provide information to the general public and, or to RF workers about the nature and degree of the radio frequency hazard and the appropriate safety actions to be followed.

(3) The operation of any radiocommunications apparatus comprised in a wireless electronic communications network in a manner which causes the field strength levels at any area to potentially approach or exceed the general public exposure limits referred to in regulation 5 of Part II of these regulations, shall require undertakings to identify and clearly demarcate the said area”.

Amends the First
Schedule to the
principal regulations.

8. The First Schedule to the principal regulations shall be amended as follows:

(a) in paragraph 1 thereof the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”; and

(b) in paragraph 4 thereof the words “must be capable of operating only” shall be substituted with “shall operate only”.

Amends the Second
Schedule to the
principal regulations.

9. The Second Schedule to the principal regulations shall be amended as follows:

(a) in paragraph 1 thereof the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”;

(b) for paragraph 4(2) thereof, there shall be substituted the following:

“(2) Wireless access systems operating in the 5 GHz band A shall only be used at indoor locations.”;

(c) for paragraph 4(3) thereof, there shall be substituted the following:

“(3) The use of fixed outdoor installations for wireless access systems operating in the 61.5 GHz band is not allowed.”; and

(d) for the Annex to the Second Schedule there shall be substituted the following:

“ANNEX TO THE SECOND SCHEDULE

(Paragraph 3 of the Second Schedule)

Minimum Technical Parameters of Wireless Access Systems

Mandatory Parameters				Informative Parameters
Frequency band	Maximum transmit power	Maximum power density	Other restrictions	Recommended (harmonised) standard
2400-2483.5 MHz	100mW e.i.r.p.	100mW/100 kHz when frequency hopping modulation is used	No. 1	EN 300 328
	100mW e.i.r.p.	10mW/MHz e.i.r.p. when other types of modulation are used	No. 1	EN 300 328
5150-5250 MHz	200mW mean e.i.r.p.	10mW/MHz in any 1 MHz band	Indoor use only.	EN 301 893
5250-5350 MHz	200mW mean e.i.r.p.	10mW/MHz in any 1 MHz band	Indoor use only. Nos. 2 and 3	EN 301 893
5470-5725 MHz	1W mean e.i.r.p.	50mW/MHz in any 1 MHz band	Nos. 2 and 3	EN 301 893
17.1-17.3 GHz	100mW e.i.r.p.	-	-	-
Mandatory Parameters				Informative Parameters
Frequency band	Maximum transmit power	Maximum power density	Other restrictions	Recommended (harmonised) standard
57.0-66.0 GHz	40dBm mean e.i.r.p.	13dBm/MHz e.i.r.p.	Fixed outdoor installations are not allowed. No. 1	EN 302 567

Other Restrictions:

1. Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used.

2. TPC shall be employed to provide, on average, a mitigation factor of at least 3dB on the maximum permitted transmit power of the system. If TPC is not in use, the maximum permitted transmit power and maximum permitted power density limits shall be reduced by 3dB.

3. Systems shall use mitigation techniques that give at least the same protection as the detection, operational and response requirements described in EN 301 893 to ensure

compatible operation with radiodetermination systems. Such mitigation techniques shall equalise the probability of selecting a specific channel for all available channels so as to ensure, on average, a near-uniform spread of the spectrum loading.”.

Amends the Third
Schedule to the
principal regulations.

10. In paragraph 1 of the Third Schedule to the principal regulations, the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.

Amends the Fourth
Schedule to the
principal regulations.

11. The Fourth Schedule to the principal regulations shall be amended as follows:

(a) in paragraph 1 thereof, the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”;

(b) for paragraph 3 thereof, there shall be substituted the following:

“(3) The minimum technical parameters of non-specific short range radiocommunications apparatus shall be those specified in the Annex to this Schedule.”;
and

(c) for the Annex to the Fourth Schedule there shall be substituted the following:

“ANNEX TO THE FOURTH SCHEDULE
(Paragraph 3 of the Fourth Schedule)
Minimum Technical Parameters of Non-Specific Short Range Devices

Mandatory Parameters							Informative Parameters	
Frequency Band	Maximum transmit power /Magnetic field	Duty cycle	Channel spacing	Power density	Other restrictions	Recommended (harmonised) standard	Notes	
6765-6795 kHz	42 dBµA/m at 10m					EN 300 330		
13.553-13.567 MHz	42 dBµA/m at 10m					EN 300 330		
26.957-27.283 MHz	10mW e.r.p. or 42 dBµA/m at 10m				No. 1	EN 300 220 EN 300 330		
40.66-40.70 MHz	10mW e.r.p.				No. 1	EN 300 220		
138.20-138.45 MHz	10mW e.r.p.	< 1.0%				EN 300 220		
433.05-434.79 MHz	10mW e.r.p.	10%			No. 2	EN 300 220		
433.05-434.79 MHz	1mW e.r.p.			-13dBm/10 kHz for bandwidth modulation greater than 250kHz	No. 6	EN 300 220		
434.04-434.79 MHz	10mW e.r.p.	up to 100%	up to 25 kHz		No. 6	EN 300 220		
863-865 MHz	25mW e.r.p.	Restriction 3			No. 2	EN 300 220		
865-868 MHz	25mW e.r.p.	Restriction 4			No. 2	EN 300 220		
868-868.6 MHz	25mW e.r.p.	Restriction 4			No. 7	EN 300 220		
868.7-869.2 MHz	25mW e.r.p.	Restriction 3			No. 7	EN 300 220		

Mandatory Parameters						Informative Parameters	
Frequency Band	Maximum transmit power / Magnetic field	Duty cycle	Channel spacing	Power density	Other restrictions	Recommended (harmonised) standard	Notes
869.4-869.65 MHz	500mW e.r.p.	Restriction 5	25 kHz		No. 7	EN 300 220	The whole stated frequency band may also be used as a single channel for high-speed data transmission
	25mW e.r.p.						
	5mW e.r.p.						
	25mW e.r.p.						
869.7-870.0 MHz	25mW e.r.p.	Restriction 3			No. 2	EN 300 220	
	5mW e.r.p.				No. 6	EN 300 220	
	25mW e.r.p.	Restriction 4			No. 2	EN 300 220	
2400-2483.5 MHz	10mW e.i.r.p.					EN 300 440	
5725-5875 MHz	25mW e.i.r.p.					EN 300 440	
24.00-24.25 GHz	100mW e.i.r.p.					EN 300 440	
61.0-61.5 MHz	100mW e.i.r.p.					EN 305 550	
122-123 GHz	100mW e.i.r.p.					EN 305 550	
244-246 GHz	100mW e.i.r.p.					EN 305 550	

Other Restrictions:

1. Video applications are excluded.
2. Analogue audio applications other than voice are excluded. Analogue video applications are excluded.
3. Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 0.1% may also be used.
4. Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 1% may also be used.
5. Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle of 10% may also be used.
6. Audio and video applications are excluded. Voice applications are allowed with advanced mitigation techniques.
7. Analogue video applications are excluded.”.

12. In paragraph 1 of the Fifth Schedule to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.

Amends the Fifth Schedule to the principal regulations.

13. The Sixth Schedule to the principal regulations shall be deleted.

Deletes the Sixth Schedule to the principal regulations.

14. The Seventh to the Twenty-Seventh Schedules to the principal regulations shall be renumbered as the Sixth to the Twenty-Sixth Schedules thereto respectively.

Renumbers from the Seventh to the Twenty-Seventh Schedules to the principal regulations.

Amends the Sixth Schedule as renumbered to the principal regulations.

15. The Sixth Schedule as renumbered to the principal regulations shall be amended as follows:

(a) in paragraph 1 thereof the words “buying, selling or having in his possession or under his control, or installing and operating” there shall be substituted the words “installing or using”;

(b) paragraphs 2 and 3 thereof shall be deleted;

(c) immediately after paragraph 1 thereof, there shall be added the following new paragraphs:

“Interpretation.”

2. In this Schedule:

“model control radiocommunications apparatus” means radiocommunications apparatus designed or adapted for the purpose of controlling (otherwise than by means of telephony) the movement of a model vehicle, vessel or aircraft or a model of any other type by means of the emission of electro-magnetic energy from that apparatus and the reception of such energy by receiving apparatus in the model.

R&TTE Regulations.

3. Unless otherwise required by the Authority, model control radiocommunications apparatus which enjoyed a valid radiocommunications licence however so described prior to the coming into force of these regulations is exempt from the requirement to be compliant with the provisions of the R&TTE Regulations.

Minimum technical parameters.

4. The minimum technical parameters of model control radiocommunications apparatus shall be those specified in the Annex to this Schedule.

Compliance with these regulations.

5. (1) In operating model control radiocommunications apparatus any person shall at all times comply with these regulations.

(2) The operation of model control radiocommunications apparatus shall be limited to those sites or locations however so described, established appropriately for this purpose by the

competent authorities. The use of model control radiocommunications apparatus at any other site or location is prohibited.”; and

(d) for the Annex to the Sixth Schedule as renumbered of the principal regulations there shall be substituted the following:

“ANNEX TO THE SIXTH SCHEDULE

(paragraph 4 of the Sixth Schedule)

**Minimum Technical Parameters of Model Control
Radiocommunications Apparatus**

Mandatory Parameters			Informative Parameters
Operating frequency	Maximum power limit	Additional technical and/or usage restrictions	Recommended (harmonised) standard
26.975, 26.995, 27.025, 27.045, 27.075, 27.095, 27.125, 27.145, 27.175, 27.195, 27.225, 27.245 MHz	100 mW e.r.p.	Channel spacing: 10 kHz	EN 300 220
34.400, 34.700, 34.990, 35.000, 35.010, 35.020, 35.030, 35.040, 35.050, 35.060, 35.070, 35.080, 35.090, 35.100, 35.110, 35.120, 35.130, 35.140, 35.150, 35.160, 37.170, 35.180, 35.190, 35.200, 35.210, 35.220, 35.230, 35.300, 35.600 MHz	100 mW e.r.p.	Channel spacing: 10 kHz Usage limited to flying models only	EN 300 220

Mandatory Parameters			Informative Parameters
Operating frequency	Maximum power limit	Additional technical and/or usage restrictions	Recommended (harmonised) standard
40.665, 40.675, 40.685, 40.695, 40.715, 40.725, 40.735, 40.765, 40.775 MHz	100 mW e.r.p.	Channel spacing: 10 kHz	EN 300 220
41.000, 41.010, 41.020, 41.030, 41.040, 41.050, 41.060, 41.070, 41.100, 41.110, 41.120, 41.130, 41.140, 41.150, 41.160, 41.170, 41.180, 41.190, 41.200 MHz	100 mW e.r.p.	Channel spacing: 10 kHz Usage limited to flying models only	EN 300 220”.

Amends the
Seventh Schedule as
renumbered to the
principal regulations.

16. In paragraph 1 of the Seventh Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.

Amends the
Eighth Schedule as
renumbered to the
principal regulations.

17. The Eighth Schedule as renumbered to the principal regulations shall be amended as follows:

(a) in paragraph 1 thereof the words “buying, selling or having in his possession or under his control, or installing and operating” there shall be substituted the words “installing or using”; and

(b) for the Annex to the Eighth Schedule there shall be substituted the following:

“ANNEX TO THE EIGHTH SCHEDULE

(Paragraph 2 of the Eighth Schedule)

Minimum Technical Parameters of Wireless Audio Systems

Frequency band		Maximum transmit power	Channel spacing	Recommended (harmonized) standard (Informative)	Notes (Informative)
a.	87.5-108 MHz	50 nW e.r.p.	200 kHz	EN 300 357	Low power FM transmitters
b.	863-865.0 MHz	10 mW e.r.p.	No spacing	EN 301 357	-
c.	864.8-865.0 MHz	10 mW e.r.p.	50 kHz	EN 301 220	Narrow band analogue voice apparatus only
d.	1795-1800 MHz	20 mW e.i.r.p.	No spacing	EN 301 357	“.

Amends the
Ninth Schedule as
renumbered to the
principal regulations.

18. In paragraph 1 of the Ninth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.

- 19.** In paragraph 1 of the Tenth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Tenth Schedule as renumbered to the principal regulations.
- 20.** In paragraph 1 of the Eleventh Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Eleventh Schedule as renumbered to the principal regulations.
- 21.** In paragraph 1 of the Twelfth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Twelfth Schedule as renumbered to the principal regulations.
- 22.** In paragraph 1 of the Thirteenth Schedule as renumbered to the principal regulations, for the words “buying, selling or having in his possession or under his control, or installing and operating radiocommunications apparatus” there shall be substituted the words “installing or using radiocommunications apparatus”.
Amends the Thirteenth Schedule as renumbered to the principal regulations.
- 23.** In paragraph 1 of the Fifteenth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Fifteenth Schedule as renumbered to the principal regulations.
- 24.** In paragraph 1 of the Sixteenth Schedule as renumbered to the principal regulations, for the words “buying, selling or having in his possession or under his control, or installing and operating” there shall be substituted the words “installing or using”.
Amends the Sixteenth Schedule as renumbered to the principal regulations.
- 25.** In paragraph 1 of the Seventeenth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Seventeenth Schedule as renumbered to the principal regulations.
- 26.** In paragraph 1 of the Eighteenth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Eighteenth Schedule as renumbered to the principal regulations.

Amends the
Nineteenth Schedule
as renumbered to the
principal regulations.

27. The Nineteenth Schedule as renumbered to the principal regulations shall be amended as follows:

(a) in paragraph 1 thereof the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”; and

(b) for the Annex to the Nineteenth Schedule as renumbered there shall be substituted the following:

“ANNEX TO THE NINETEENTH SCHEDULE

(Paragraph 3 of the Nineteenth Schedule)

Minimum Technical Parameters of Radiocommunications Apparatus used in Healthcare

Frequency band	Maximum transmit power / field strength	Duty Cycle	Channel Spacing	Other usage restrictions	Application
9 – 315 kHz	30 dB μ A/m at 10m	10%			Active medical implants
315 – 600 kHz	-5 dB μ A/m at 10m	10%			Animal implantable devices
12.5 – 20.0 MHz	-7 dB μ A/m at 10m (specified in a bandwidth of 10 kHz)	10%		Indoor use only.	Ultra Low Power active animal implantable devices
30.0 – 37.5 MHz	1 mW e.r.p.	10%			Ultra Low Power medical membrane implants for blood pressure measurements only
401 – 402 MHz	25 μ W e.r.p.		25 kHz Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz.	Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.	Ultra Low Power active medical implants
402 – 405 MHz	25 μ W e.r.p.		25 kHz Individual transmitters may combine adjacent channels for increased bandwidth up to 300 kHz.	Other techniques to access spectrum or mitigate interference, including bandwidths greater than 300 kHz, can be used provided they result at least in an equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC to ensure compatible operation with the other users and in	Active medical implants

Frequency band	Maximum transmit power / field strength	Duty Cycle	Channel Spacing	Other usage restrictions	Application
405 – 406 MHz	25 µW e.r.p.		25 kHz Individual transmitters may combine adjacent 25 kHz channels for increased bandwidth up to 100 kHz.	particular with meteorological radiosondes. Techniques to access spectrum and mitigate interference that provide at least equivalent performance to the techniques described in harmonised standards adopted under Directive 1999/5/EC must be used. Alternatively a duty cycle limit of 0.1% may also be used.	Ultra Low Power active medical implants ¹⁾ .

- 28.** In paragraph 1 of the Twentieth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Twentieth Schedule as renumbered to the principal regulations.
- 29.** In paragraph 1 of the Twenty-First Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Twenty-First Schedule as renumbered to the principal regulations.
- 30.** In paragraph 1 of the Twenty-Second Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Twenty-Second Schedule as renumbered to the principal regulations.
- 31.** In paragraph 1 of the Twenty-Third Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Twenty-Third Schedule as renumbered to the principal regulations.
- 32.** In paragraph 1 of the Twenty-Fourth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Twenty-Fourth Schedule as renumbered to the principal regulations.
- 33.** In paragraph 1 of the Twenty-Fifth Schedule as renumbered to the principal regulations the words “buying, selling or having in his possession or under his control, or installing and operating” shall be substituted with the words “installing or using”.
Amends the Twenty-Fifth Schedule as renumbered to the principal regulations.
- 34.** The Twenty Sixth-Schedule as renumbered to the principal regulations shall be amended as follows:
Amends the Twenty-Sixth Schedule as renumbered to the principal regulations.
- (a) in paragraph 1 thereof the words “buying, selling or having in his possession or under his control, or installing and operating” there shall be substituted the words “installing or using”; and
- (b) for the Annex to the Twenty-Sixth Schedule as renumbered there shall be substituted the following:

“ANNEX TO THE TWENTY-SIXTH SCHEDULE

(Paragraph 3 of the Twenty sixth Schedule)

Minimum Technical Parameters of road transport and traffic telematics systems

Frequency band	Maximum transmit power	Additional parameters / spectrum access and mitigation requirements	Other usage restrictions
5795 – 5805 MHz	2 W e.i.r.p.		For road-to-vehicle systems
63 – 64 GHz			For vehicle-to-vehicle and road-to-vehicle systems
76 – 77 GHz	55 dBm peak e.i.r.p. and 50 dBm mean e.i.r.p. and 23.5 dBm mean e.i.r.p. for pulse radar		For vehicle and infrastructure radar systems only
24.05 – 24.075 GHz	100 mW e.i.r.p.		For vehicle radars
24.075 – 24.15 GHz	0.1 mW e.i.r.p.		For vehicle radars
	100 mW e.i.r.p.	$\leq 4\mu/40\text{kHz}$ dwell time every 3ms	For vehicle radars The spectrum access and mitigation requirement is given for devices mounted behind a bumper. If mounted without a bumper, the requirement should be $3\mu\text{s}/40\text{kHz}$ maximum dwell time every 3 ms.
		$\leq 1\text{ms}/40\text{kHz}$ dwell time every 40ms	The spectrum access and mitigation requirement is given for devices mounted behind a bumper or mounted without a bumper.
24.15 – 24.25 GHz	100 mW e.i.r.p.		For vehicle radars".

Adds new Twenty Seventh to Thirty First Schedules to the principal regulations.

35. Immediately after the Twenty-Sixth Schedule as renumbered to the principal regulations, there shall be added the following new schedules:

“TWENTY-SEVENTH SCHEDULE**(Regulation 3)****General Authorisation for Angle-Modulated Citizens' Band
(PR 27) Radiocommunications Apparatus**

1. This Schedule applies to any person installing or using angle-modulated citizens' band (PR 27) radiocommunications apparatus or any apparatus used as a component part of that apparatus.

Applicability of
Twenty-Seventh
Schedule

2. In this Schedule:

Interpretation

“angle modulation” means modulation with an audio pre-emphasis characteristic for the Frequency Modulation transmitter and an audio de-emphasis characteristic for the receiver.

3. The minimum technical parameters of apparatus used for angle-modulated citizens' band (PR 27) radiocommunications apparatus shall be those specified in the Annex to this Schedule.

Minimum technical
parameters

4. Unless otherwise required by the Authority, model control radiocommunications apparatus which enjoyed a valid radiocommunications licence however so described prior to the coming into force of these regulations is exempt from the requirement to be compliant with the provisions of the R&TTE Regulations.

R&TTE Regulations

5. Angle-modulated citizens' band (PR 27) radiocommunications apparatus shall not be used on board aircraft of any kind, or as an aeronautical station.

Location of use

6. (1) Angle-modulated citizens' band (PR 27) radiocommunications apparatus may employ all types of external antennas with the exception of directional antennas with gain in the horizontal plane.

Limitations

(2) The operation of repeater stations in conjunction with angle-modulated citizens' band (PR 27) radiocommunications apparatus is not permitted.

(3) Transmission and reception of communications using angle-modulated citizens' band (PR 27) radiocommunications

apparatus shall take place on the same channel (single frequency, simplex traffic).

(4) Angle-modulated citizens' band (PR 27) radiocommunications apparatus shall not be considered as the primary means for distress and safety communications.

ANNEX TO TWENTY-SEVENTH SCHEDULE

(Paragraph 3 of the Twenty-Seventh Schedule)

Minimum Technical Parameters for Angle-Modulated Citizens' Band (PR 27) Radiocommunications Apparatus

1. Channelling arrangements

Channel No.	Carrier Frequencies (MHz)	Channel No.	Carrier Frequencies (MHz)
1	26.965	21	27.215
2	26.975	22	27.225
3	26.985	23	27.235
4	27.005	24	27.245
5	27.015	25	27.255
6	27.025	26	27.265
7	27.035	27	27.275
8	27.055	28	27.285
9	27.065	29	27.295
10	27.075	30	27.305
11	27.085	31	27.315
12	27.105	32	27.325
13	27.115	33	27.335
14	27.125	34	27.345
15	27.135	35	27.355
16	27.155	36	27.365
17	27.165	37	27.375
18	27.175	38	27.385
19	27.185	39	27.395
20	27.205	40	27.405

2. Channel Separation: 10 kHz

3. Maximum Transmit Power: 4 Watts

TWENTY-EIGHTH SCHEDULE**(Regulation 3)****General Authorisation for the Radiocommunications
Apparatus comprised in a Wireless Electronic Communication
Network**

1. This Schedule applies to an undertaking installing radiocommunications apparatus comprised in a wireless electronic communications network to be operating on individual rights of use of radio frequencies granted under the Electronic Communications (Regulation) Act, or any apparatus used as a component part of that apparatus:

Applicability of
Twenty-Eighth
Schedule

Cap. 399.

Provided that the aforesaid wireless electronic communications network is used for the provision of publicly available electronic communications services including television and radio distribution services.

2. In this Schedule:

Interpretation

“individual rights of use” means an individual grant to use specific radio frequencies.

3. The minimum technical parameters of the radiocommunications apparatus comprised in a wireless electronic communications network shall be those specified in the individual rights of use granted under the Electronic Communications (Regulation) Act.

Minimum technical
parameters

4. (1) The radiocommunications apparatus comprised in a wireless electronic communications network shall be operated exclusively by personnel duly authorised by the undertaking and under the responsibility of the undertaking.

Limitations

(2) The undertaking shall not permit any unauthorised persons to operate the radiocommunications apparatus comprised in a wireless electronic communications network.

(3) The undertaking shall ensure that persons authorised to operate the radiocommunications apparatus comprised in a wireless electronic communications network observe the terms, conditions and limitations of these regulations.

TWENTY-NINTH SCHEDULE**(Regulation 3)****General Authorisation for Dealing in Radiocommunications
Apparatus other than Television and Broadcast Receiving**

Applicability of
Twenty-Ninth
Schedule

1. This Schedule applies to any person who deals in the sale of radiocommunications apparatus other than television and broadcast receiving.

Interpretation

2. In this Schedule:

“apparatus” means any radiocommunications apparatus other than television and broadcast receiving;

“dealer” means any person who engages in a commercial activity to sell apparatus.

Limitations

3. (1) Any dealer shall place on the market for the purpose of being operated in Malta only apparatus which complies with the R&TTE Regulations or any other applicable law.

(2) The Authority may require any dealer to provide it with any information relating to the storing, purchase and sale of apparatus.

(3) A dealer shall, by not later than fifteen days following the sale, hire or passing over to any person of apparatus which requires the assignment of a Maritime Mobile Service Identity (MMSI) and, or call sign, notify such deal to the Authority or any other competent authority as applicable:

Provided that this sub-paragraph is not applicable to apparatus intended to be installed and, or operated on a ship or aircraft not registered with the competent authority responsible for transport in Malta.

(4) A dealer is not permitted to dispose of any apparatus which is capable to operate without first rendering the apparatus incapable of transmitting any radio signal.

Servicing and
repairing of apparatus

4. (1) A dealer shall before commencing an activity relating to the servicing and repairing of apparatus, notify in writing such activities to the Authority.

(2) The notification under sub-paragraph (2) above shall be in such form as the Authority may from time to time determine.

(3) The apparatus to be serviced or repaired shall be connected to either a suitable radio frequency dummy load or a radio frequency apparatus containing a dummy load.

(4) Any transmission for the purpose of completing servicing and repairing may be carried out using appropriate radiating antennas on those radio frequencies the rights of use of which were granted by the Authority:

Provided that any transmission shall be of the minimum possible duration and with low radiated power level where possible.

(5) This General Authorisation does not authorise any dealer to service and, or repair apparatus which is not compliant with sub-paragraph 3(1) above.

THIRTIETH SCHEDULE

(Regulation 3)

General Authorisation for Communication Receive Only Radiocommunications Apparatus

1. This Schedule applies to any person installing or using communication receive only radiocommunications apparatus or any apparatus used as a component part of that apparatus.

Applicability of
Thirtieth Schedule

2. In this Schedule:

Interpretation

“communication receive only radiocommunications apparatus” or “communication receiver” means apparatus capable to receive voice only radiocommunications with the exception of sound only broadcast receivers.

3. (1) In operating a communication receiver any person shall not intercept radiocommunications not intended for the general use of the public.

Limitations

(2) No person shall divulge the contents, simply disclose of the existence, publish or make any use whatsoever without authorisation, of information of any nature whatsoever obtained by the interception referred to in sub-paragraph (1) above.

THIRTY-FIRST SCHEDULE

(Regulation 3)

General Authorisation for Radio Microphones

Applicability of
Thirty-First Schedule

1. This Schedule applies to any person buying, selling or having in his possession or under his control, or installing and operating radio microphones or any apparatus used as a component part of that apparatus.

Minimum technical
parameters

2. The minimum technical parameters of radio microphones shall be those specified in the Annex to this Schedule.

R&TTE Regulations

3. Unless otherwise required by the Authority, model control radiocommunications apparatus which enjoyed a valid radiocommunications licence however so described prior to the coming into force of these regulations is exempt from the requirement to be compliant with the provisions of the R&TTE Regulations.

ANNEX TO THIRTY-FIRST SCHEDULE

(Paragraph 3 of the Thirty-First Schedule)

Minimum Technical Parameters for Radio Microphones

Mandatory Parameters			Informative Parameters
Frequency band	Maximum power limit	Additional technical and/or usage restrictions	Recommended (harmonised) standard
29.7 – 34.9 MHz	30 mW e.r.p.	Channel spacing: 50 kHz	EN 300 422
37.5 – 40.98 MHz	30 mW e.r.p.	Channel spacing: 50 kHz	EN 300 422
173.7 – 181 MHz	50 mW e.r.p.		EN 300 422
854 – 862 MHz	50 mW e.r.p.		EN 300 422
863 – 865 MHz	10 mW e.r.p.		EN 300 422 EN 301 357
1785 – 1795 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	50 mW restricted to body worn apparatus The use of this band is limited to radio microphones employing digital technology	EN 300 422 EN 301 840
1795 – 1800 MHz	20 mW e.i.r.p. 50 mW e.i.r.p.	50 mW restricted to body worn apparatus The use of this band is limited to radio microphones employing digital technology	EN 300 422 EN 301 840".

THIRTY-SECOND SCHEDULE**(Regulation 3)****General Authorisation for Apparatus for Mobile
Communication Services on board vessels**

Applicability of
Thirty-Second
Schedule

1. This Schedule applies to apparatus for mobile communication services on board vessels in the territorial seas of Malta.

Interpretation

2. In this Schedule unless the context otherwise requires:

Cap.226.

“baseline” has the same meaning as in the Territorial Waters and Contiguous Zone Act;

“mobile communication services on board vessels” or “MCV services” means electronic communications service as defined in article 2 of the Electronic Communications (Regulation) Act provided by an undertaking to enable persons on board a vessel to communicate via public communication networks using a GSM system without establishing direct connections with land-based networks;

“the 900 MHz band” means the 880-915 MHz band for uplink (terminal transmit, base station receive) and 925-960 MHz band for downlink (base station transmit, terminal receive);

“the 1800 MHz band” means the 1710-1785 MHz band for uplink (terminal transmit, base station receive) and 1805-1880 MHz band for downlink (base station transmit, terminal receive);

“EN 301 502” means a harmonised European standard for the Global system for mobile communications (GSM); Harmonised EN for Base Station Equipment covering the essential requirements of article 3.2 of the Directive 1999/5/EC;

“EN 301 511” means a harmonised European standard for the Global System for mobile communications (GSM); Harmonised EN for mobile stations in the GSM 900 and GSM 1800 bands covering essential requirements under article 3.2 of the Directive 1999/5/EC;

“GSM system” means an electronic communications network that complies with the GSM standards, as published by European Telecommunications Standards Institute, in particular EN 301 502 and EN 301 511;

“territorial waters” or “territorial sea” has the same meaning as defined in paragraph 2 of the First Schedule of these regulations; and

“vessel base transceiver station” or “vessel-BS” means a mobile pico-cell located on a vessel and supporting GSM services in the 900 MHz and/or 1800 MHz bands.

3. (1) Apparatus for MCV services shall operate in the 900 MHz and, or in the 1800 MHz band on a non-interference and non-protection basis.

Minimum Technical
Parameters

(2) The minimum technical parameters of Apparatus for MCV services shall be those specified in the Annex to this Schedule.

4. (1) The apparatus providing MCV services shall not be used within 2 nautical miles (3,704 metres) from the baseline.

Limitations
Cap.226.

(2) The use of apparatus providing MCV services between 2 nautical miles (3,704 metres) and 12 nautical miles (22,224 metres) is limited to indoor vessel-BS only.

ANNEX TO THIRTY-SECOND SCHEDULE

(Paragraph 3 of the Thirty-Second Schedule)

Minimum Technical Parameters for Mobile Communication Services on board vessels

Limits to be set for mobile terminals when used on board vessel and for vessel-BS.

Parameter	Description
Transmit power / power density	For mobile terminals used on board vessels and controlled by the vessel-BS in the 900 MHz band, maximum radiated output power:
	5 dBm
	For mobile terminals used on board vessels and controlled by the vessel-BS in the 1800 MHz band, maximum radiated output power:
	0 dBm
	For base stations on board vessels, the maximum power density measured in external areas of the vessel, with reference to a 0 dBi measurement antenna gain:
	-80 dBm/200 kHz
Channel access and occupation rules	<p>Techniques to mitigate interference that provide at least equivalent performance to the following mitigation factors based on GSM standards shall be used:</p> <ul style="list-style-type: none"> - between 2 and 3 nautical miles from a baseline, the receiver sensitivity and the disconnection threshold (ACCMIN⁽¹⁾ and min RXLEV⁽²⁾ level) of the mobile terminal used on board vessel shall be equal to or higher than -70 dBm/200 kHz and between 3 and 12 nautical miles from the baseline equal to or higher than -75 dBm/200 kHz; - discontinuous transmission⁽³⁾ shall be activated in the MCV system uplink direction; - the timing advance⁽⁴⁾ value of the vessel-BS shall be set to the minimum.

⁽¹⁾ ACCMIN (RX_LEV_ACCESS_MIN): as described in GSM standard ETSI TS 144 018.

⁽²⁾ RXLEV (RXLEV-FULL-SERVING-CELL): as described in GSM standard ETSI TS 148 008.

⁽³⁾ Discontinuous transmission or DTX: as described in GSM standard ETSI TS 148 008.

⁽⁴⁾ Timing advance: as described in GSM standard ETSI TS 144 018.

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