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NOTICE 533 OF 2004

DEPARTMENT OF COMMUNICATIONS

REGULATIONS IN RESPECT OF USE OR POSSESSION OF CERTAIN RADIO APPARATUS WITHOUT A RADIO FREQUENCY SPECTRUM LICENCE, CERTIFICATE, AUTHORITY OR PERMIT

In terms of section 96(1) of the Telecommunications Act, (Act 103 of 1996), I, Ivy Matsepe-Casaburri, Minister of Communications, hereby approve and publish the regulations in the Schedule made by the Independent Communications Authority of South Africa in terms of section 95 read with section 30(9) of the said Act

Ivy Matsepe-Casaburri
Minister of Communications

SCHEDULE

Definitions

1. In these regulations a word or expression has the meaning assigned to it in the Telecommunications Act, 1996 (Act No. 103 of 1996), unless the context indicates otherwise, -

"Baby Monitors" means radio apparatus used to transmit sound to a remote receiver to monitor the sound or movement of infants;

"Field Disturbance and Doppler Apparatus" ("FDDA") means radio apparatus which operates by producing a radiated field and responding to any disturbance of that field caused by an intrusion or movement within the field by

"High Performance Radio Local Area Network" ("Hiperlan") means radio apparatus, utilising spread-spectrum modulation techniques, to link computer nodes within a network;

"Inductive Loop Systems" means radio apparatus which operate by producing a controlled magnetic field within which a predetermined recognisable signal is formed. Examples include shop anti-theft tagging systems, car immobiliser keys and door access tokens;

"Low Power Radio" means radio apparatus used for short range two-way voice communications e.g. toy walkie talkies;

"Model Control apparatus" means radio apparatus used to control the movement of the model in the air, on land or over or under the water surface;

"Non specific Short Range Devices" means radio apparatus used for general telemetry, telecommand, alarms and data with a low duty cycle (<1.0%);

"Road Transport and Traffic Telematics" ("RTTT") means radio apparatus used for traffic management. Applications include automatic road toll collection, route guidance systems, vehicle or container identification, instant traffic information, parking management, advance incident warning and on-vehicle anti-collision radar ;

"Telecommand" means the use of Radio Apparatus for the transmission of signals to initiate, modify or terminate functions of equipment at a distance ;

"Telemetry" means the transmission of remotely measured data ;

"Video Surveillance Equipment" means radio apparatus used for security camera purposes to replace the cable between a camera and a monitor;

"Wideband Wireless Systems" means radio apparatus that are general-purpose high bit rate spread spectrum radio systems;

"Wireless Audio Systems" means radio apparatus used to replace the wired headphones or speakers in hi-fi systems ; and

"Wireless Microphones" means radio apparatus used to transmit speech or music over short distances to a remote receiver in places like studios and theatres .

Categories of radio apparatus which shall not require radio frequency spectrum licence, certificate, authority or permit.

2 The use or possession of the radio apparatus listed in column B of the Annexure shall not require a radio frequency spectrum licence, certificate, authority or permit.

Circumstances in which certain radio apparatus shall not require radio frequency spectrum licence, certificate, authority or permit

3 The circumstances in which the use or possession of the radio apparatus referred to in clause 2 shall not require a radio frequency spectrum licence, certificate, authority or permit are the following:

(1) The apparatus must be operated within and must not exceed the technical parameters set out in each of the applicable columns of the Annexure with respect to: -

(a) the frequency band ;

(b) maximum radiated power or field strength limits and channel spacing ;

(c) relevant standard ; and

(d) Duty cycles and antennas to be used as contained in CEPT/ERC/REC 70-03.

(2) The radio apparatus must be type-approved by the Authority in accordance with section 54 of the Act.

(3) The frequencies, transmitting power and external high-gain antenna of the radio apparatus may not be altered without a new type approval certificate from the Authority.

(4) The antenna of the radio apparatus may not be higher above average ground level than the lowest point of the place where the radio apparatus operates effectively.

(5) The radio apparatus may not cause harmful interference to licensed telecommunication and broadcasting services.

(6) The user of radio apparatus may not claim protection from licensed telecommunication and broadcasting services.

(7) The radio apparatus may not be used to provide a telecommunication service to another person without a telecommunication service licence and in a manner that contravenes the provisions of the Act.

4. Wireless spread spectrum Local Area Networks (LAN's); used for short distance on single sites e.g. in an office complex in the 2, 4-2, 5 GHz (ISM) band. The standard to be utilised for such systems in this band shall be ETS 300328 or an equivalent standard. In particular, RF power requirements shall be in accordance with the standards mentioned which are broadly as follows: The maximum effective isotropic radiated power is defined as the total power of the transmitter which is - 10 dBW (100 mW). The peak power density is defined as the highest instantaneous level of power in Wafts per Hertz generated by the transmitter within the power envelope. This shall be - 10 dBW (100 mW) per 100 kHz EIRP for equipment using Frequency Hopping Spread Spectrum (FHSS) modulation and -20 dBW (10 mW) per MHz EIRP for other modulation types. The following conditions are applicable:

(a) Only equipment which has been type approved by ICASA may be used. Such type approval shall require compliance with the Radio Regulations and the standard stipulated above.

(b) No interference may be caused to users of other ISM equipment within the band or to other radio users outside the band.

(c) No complaints of interference to spread spectrum systems will be investigated.

(d) LAN's shall be confined to the same premises/buildings.

5 Wireless LAN's used for short distance, in the following other ISM bands, namely 433,050-434,790 MHz and 5725-5875 GHz for use on single sites e.g. in an office complex. Spread spectrum/wide band standards other than ETS 300328 will be considered within these bands in accordance with the general principles listed in (4) for the 2,4-2,5 GHz ISM band, especially with regard to power requirements.

Withdrawal of Notice

6. Government Notice No 1790 of 17 November 1995 is hereby withdrawn.

Annexure

Column A Frequency Bands K=kHz, M=MHz G=GHz	Column B Type of Device	Column C Max Radiated Power or Field Strength Limits & Channel spacing	Column D Relevant Standard	Column E Additional Requirements
9 – 59.75K	Inductive Loop System	72 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
59.75-60.25K	Inductive Loop System	42 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
60.25-70K	Inductive Loop System	72 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
70-119K	Inductive Loop System	42 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
119-135K	Inductive Loop System including RFID's	72 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
1606.5– 1610 K	Baby Alarms, Wireless Record Players	1W eirp		
7400 – 8800 K	Inductive Loop System	9 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
6.765 – 6.795 M	Inductive Loop System	42 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
13.553 – 13.567 M	Inductive Loop System including RFID's.	42 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03

Column A Frequency Bands K=kHz M=MHz G=GHz	Column B Type of Device	Column C Max Radiated Power or Field Strength Limits & Channel spacing	Column D Relevant Standard	Column E Additional Requirements
26.957 – 27.283 M	Inductive Loop System	42 dBμA/m @ 10 m	EN 300 330 EN 301 489-1,3	CEPT/ERC/REC 70-03
26.957 – 27.283 M	Non-specific SRD	10 mW erp	EN 300 220 EN 301 489-1,3	CEPT/ERC/REC 70-03
26.99 – 27.20 M	Surface Model Control	100 mW erp	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
35.00 – 35.25 M	Aircraft Model Control Only	100 mW erp	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
36.65 – 36.75 M	Wireless Microphones.	100 mW erp	EN 300 422	
40.65 – 40.7 M	Wireless Microphones.	100 mW erp	EN 300 422	
40.66 – 40.7 M	Non-specific SRD	10 mW erp	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
46.61 –46.97M 49.67 – 49.97M	CT0 Cordless Phones.	10 mW eirp	ICASA TE-013	
53 –54 M	Wireless Microphones	100 mW erp	EN 300 422	

Column A Frequency Bands K=kHz M=MHz G=GHz	Column B Type of Device	Column C Max Radiated Power or Field Strength Limits & Channel spacing	Column D Relevant Standard	Column E Additional Requirements
54.4500; 54.4625; 54.4750; 54.4875; 54.500; 54.5125; 54.5250; 54.5375; 54.5500; 60.0250; 60.0375; 60.0500; 60.0625; 60.0750; 60.0875; 60.1000; 60.1125 60.1250M	Model Control.	5W erp	EN 300 220-1	
60.1375 – 60.3750M	Aircraft Model Control Only	5W erp	EN 300 220-1	This band is to be gradually phased out according to SABRE1
141 – 142 MHz	Remote control Industrial Apparatus.	100mW	EN 300 220-1	
148 – 152 MHz	Wildlife telemetry Tracking	25mW		The use of this band is restricted to National game Parks.
173.2125 – 173.2375M	Non-specific SRD - telecommand only	10 mW erp :	EN 300 220-1 EN 301 489-1,3	Channel spacing = 25KHz

Column A Frequency Bands K=kHz M=MHz G=GHz	Column B Type of Device	Column C Max Radiated Power or Field Strength Limits & Channel spacing	Column D Relevant Standard	Column E Additional Requirements
173.2375 – 173.2875M	Non-specific SRD	10 mW erp :	EN 300 220-1 EN 301 489-1,3	Channel spacing =25KHz
173.7 – 175.1 M	Wireless Microphones	10 mW eirp	EN 300 422	CEPT/ERC/REC 70-03
402 – 405 M	Medical Implants	25 µW erp	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
402 – 406 M	Doppler shift movement detectors, wireless microphones ,garage door openers, motor car alarm systems	10 mW erp	EN 300 422 EN 300 220-1 EN 301 489-1,3	
433.05 – 434.79 M	Non-specific SRD	100 mW erp	EN 300 220-1	CEPT/ERC/REC 70-03
463.975 M, 464.125 M, 464.175M, 464.325M 464.375M	Low Power Radio.	500mW,		Channel spacing =12.5KHz
863 – 865 M	Wireless Audio Systems	10 mW erp	EN 301 357	CEPT/ERC/REC 70-03
863 – 865 M	Wireless Microphones	10 mW erp	EN 300 422	CEPT/ERC/REC 70-03
864.1 – 868.1M	CT2 cordless phones	10 mW eirp	I-ETS 300 131 EN 301 489-1,10 ICASA TE - 012	

Column A Frequency Bands K=kHz M=MHz G=GHz	Column B Type of Device	Column C Max Radiated Power or Field Strength Limits & Channel spacing	Column D Relevant Standard	Column E Additional Requirements
868 – 868.6 M	Non-specific SRD	25 mW erp	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
868.6 – 868.7 M	Alarms	10 mW erp :	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
868.7 – 869.2 M	Non-specific SRD	25 mW erp	EN 300 220 EN 301 489-1,3	CEPT/ERC/REC 70-03
869.25 – 869.3 M	Alarms	10 mW erp :	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
869.4 – 869.65 M	Non-specific SRD	500 mW erp :	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
869.65 – 869.7 M	Alarms	25 mW erp :	EN 300 220-1 EN 301 489-1,3	CEPT/ERC/REC 70-03
869.7 – 870.0 M	Non-specific SRD	5 mW erp	EN 300 220 EN 301 489-1,3	CEPT/ERC/REC 70-03
915.2 – 915.4 M	Passive Tags	-		
1880 – 1900 M	DECT cordless phones	250 mW eirp (peak)	EN 300 175 EN 301 489-1,6	
2400 – 2483.5 M	Non-specific SRD	10 mW eirp	EN 300 328-2 EN 301 489-1,3	CEPT/ERC/REC 70-03
2400 – 2483.5 M	Wideband Wireless Systems. WLAN.	100 mW eirp	ETS 300 328 EN 301 489-1,17	CEPT/ERC/REC 70-03
2400 – 2483.5 M	FDDA	25 mW eirp	I-ETS 300 440 EN 301 489-1,3	CEPT/ERC/REC 70-03
2400 – 2483.5 M	Low Power Video Surveillance.	100 mW eirp	EN 300 440 EN 301 489-1,3	CEPT/ERC/REC 70-03

Column A Frequency Bands K=kHz M=MHz G=GHz	Column B Type of Device	Column C Max Radiated Power or Field Strength Limits & Channel spacing	Column D Relevant Standard	Column E Additional Requirements
5150 – 5350M	Hiperlan: indoor use only	200 mW eirp	EN 300 836-1 EN 301 489-1,17	CEPT/ERC/REC 70-03 CEPT /ERC/DEC (99)23
5470 – 5725M	Hiperlan: indoor and outdoor use	1 W eirp	EN 300 836-1 EN 301 489-1,17	CEPT/ERC/DEC (99)23 CEPT /ERC/DEC (99)23
5725 – 5875 M	Non-specific SRD	25 mW eirp	I-ETS 300 440 EN 301 489-1,3	CEPT/ERC/REC 70-03
5795 – 5805 M	RTTT data	2 W eirp	EN 300 674 ES 201 674	CEPT/ERC/REC 70-03 CEPT /ERC/DEC (92)02
5805 – 5815 M	RTTT data	2 W eirp	EN 300 674 ES 201 674	CEPT/ERC/REC 70-03 CEPT /ERC/DEC (92)02
9200 – 9500 M	FDDA	25 mW eirp	I-ETS 300 440	CEPT/ERC/REC 70-03
9500 – 9975 M	FDDA	25 mW eirp	I-ETS 300 440	CEPT/ERC/REC 70-03
10.5 – 10.6 G	FDDA	500 mW eirp	I-ETS 300 440	CEPT/ERC/REC 70-03
13.4 – 14 G	FDDA	25 mW eirp	I-ETS 300 440	CEPT/ERC/REC 70-03
17.1 – 17.3 G	Hiperlan	100 mW eirp		CEPT/ERC/REC 70-03 CEPT /ERC/DEC (99)23
24.00 – 24.25 G	Non-specific SRD	100 mW eirp	I-ETS 300 440	CEPT/ERC/REC 70-03
24.05 – 24.25 G	FDDA	100 mW eirp	I-ETS 300 440	CEPT/ERC/REC 70-03
76 – 77 G	RTTT radar	55dBm peak eirp	EN 301 091	CEPT/ERC/REC 70-03