

Regulations

GOVERNING AMATEUR RADIO STATIONS AND THEIR USE

Issued in Helsinki on 21 December 2001

The Finnish Communications Regulatory Authority (FICORA) has, under section 26, paragraph 1, subparagraphs 4 and 5, of the Radio Act of 16 November 2001 (1015/2001), prescribed as follows:

General stipulations

Section 1

Scope of application

This Regulation contains provisions on the construction and use of amateur radio transmitters and on other special stipulations to be followed in the amateur radio traffic.

Section 2

Definitions

In this Regulation:

1. *amateur radio transmitter* shall mean a radio transmitter which functions on a radio frequency assigned by the Finnish Communications Regulatory Authority to amateur radio traffic and which in the frequency range 26 MHz - 2450 MHz is able to function only in frequency bands assigned to amateur radio activities by the Radio Regulations complementing the Convention of the International Telecommunication Union¹ or by a Regulation issued by the Finnish Communications Regulatory Authority,
2. *mobile amateur radio station* shall mean an amateur radio station intended to be used while in motion or during halts at unspecified points,

¹ Brought into force by Decree 43/1986.

3. *amateur repeater station* shall mean an amateur radio station intended to be used for automatic forwarding of amateur radio transmissions without direct supervision by the holder of the licence for the station,
4. *peak envelope power* (pX) shall mean the average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle at the crest of the modulation envelope taken under normal conditions,
5. *carrier power* (pZ) shall mean the average power supplied to the antenna transmission line by a transmitter during one radio frequency cycle taken under the condition of no modulation,
6. *unwanted emissions* shall mean emissions, which are outside the frequency used for the transmission and the level of which may be reduced without affecting the transmission of information.

Licence and call sign

Section 3

Licence holder

An amateur radio station licence will, in accordance with section 10 of the Radio Act, be granted a natural person with a radio amateur's certificate, referred to in section 15, paragraph 1 of the Radio Act for the use of an amateur radio transmitter, or a legal person with the aim to pursue radio amateur activities and the supervisor of whose station holds such a certificate.

Section 4

Special licence for an amateur radio station

For the possession and use of the following radio transmitters, a special licence for an amateur radio station is required:

- a) an amateur repeater station without direct supervision of the licence holder and
- b) an amateur radio station operating without direct supervision of a radio amateur.

Section 5

Amateur radio station's call sign

As call sign of an amateur radio station, the call sign assigned in the radio licence shall be used. The call sign shall be transmitted at the beginning and the end of each communication and at least once every 10 minutes during the communication. The transmission shall be made in a way that can be received universally.

After the call sign of the amateur radio station, a stroke (/) and an auxiliary symbol shall be suffixed. The auxiliary symbol may be:

1. *digits 1 - 9*, if the call sign, immediately after the national symbol of Finland, contains the digit 0,
2. *digit 0* in the Province of Åland, if the call sign, immediately after the national symbol of Finland, contains another digit than 0,
3. *MM*, if the station is used on board a Finnish vessel in international waters,
4. *AM*, if the station is operated on board a Finnish aircraft,
5. *M or P*, if another mobile station in a vehicle than those referred to in subparagraphs 1 -4 is concerned.

After the call sign may, instead of the auxiliary symbol defined in paragraph 2, also another auxiliary symbol be suffixed.

In front of another call sign than a Finnish one, the letters OH and a stroke (OH/) shall be prefixed.

Use of an amateur radio transmitter

Section 6

Emission quality

In the amateur service, it is not allowed to use an unnecessary unstable transmitting frequency nor unnecessary strong transmitter power or bandwidth.

Section 7

Prohibition of encryption

It is not allowed to encrypt amateur radio traffic. International service abbreviations are nevertheless allowed.

Section 8

Use of someone else's amateur radio station

In the use of someone else's amateur radio station it is not allowed to go beyond the rights of the competence class of the licence holder or those of the user's competence class. If the amateur radio station is used under direct supervision of the holder of the certificate for the station, it is, however, allowed to go beyond the rights of the own competence class.

Section 9

Other traffic than amateur radio traffic

An amateur radio station may communicate with another station than an amateur radio station in immediate rescue of human life or in prevention of threatening emergency or in training in rescue operations led by the authorities.

Section 10

Forbidden amateur radio traffic

Radiocommunication with amateur stations of a foreign country is forbidden if the administration of the country concerned has notified that it objects to such radiocommunication.

An amateur radio station may be used for transmitting international communications on behalf of third parties only if the country, where the amateur radio station of the third party is situated, has permitted such communications.

Section 11

Equal and secondary rights

When operating in a frequency band for which the amateur radio service, according to table 1 in the Annex, has only secondary rights, the emissions of the amateur station shall not cause harmful interference in other services operating within this frequency band on a primary basis.

When operating in a frequency band, which, according to table 1 in the Annex, has been allocated on equal basis for amateur radio service and other radio service, the transmissions of an amateur radio station shall not cause harmful interference in Finnish radio services operating within the same frequency band.

Section 12

Supervision of the amateur radio station of an association

At the amateur radio station of an association there shall be a supervisor who supervises that the regulations concerning radiocommunications are followed in the amateur radio activities. The Finnish Communications Regulatory Authority shall be informed of the name of the supervisor.

The supervisor of an amateur repeater station shall cut off the transmission of the repeater station, if he discovers that the repeater station is used against the stipulations on radiocommunications or the terms of the radio licence.

The supervisor of an amateur repeater station shall be able to cut off the operation of the transmitter in ten minutes, whenever needed.

Section 13

Use of an amateur radio station on board a Finnish vessel

Permission must be obtained from the master of the ship for the use of an amateur radio station on board a Finnish vessel. The operation of the amateur radio station must be stopped immediately, if this is required either by the master of the ship, the shipping company, the maritime authority, the port authority or the Finnish Communications Regulatory Authority.

The operation of the amateur radio station must not cause interference in other radio services of the ship, the emergency duty of the radio station on board or the operation of other radio equipment on board.

Section 14

Use of an amateur radio station on board a Finnish aircraft

An amateur radio station may be used on board a Finnish aircraft within the Finnish airspace, if the Civil Aviation Administration of Finland (CAA) has given its permission and the master of the aircraft his or her approval of the use of the amateur radio station.

The operation of the amateur radio station must be stopped immediately, if either the master of the aircraft, the owner of the aircraft, the aviation authority or the Finnish Communications Regulatory Authority so requires.

It is forbidden to use transmitters, receivers, antennas and feeding cables belonging to the radio station of the aircraft for amateur radiocommunications.

The operation of the amateur radio station must not interfere with the normal service of the radio station of the aircraft or the operation of other equipment on board.

At the amateur radio station on board a Finnish aircraft, the frequencies below 30 MHz as mentioned in the Annex may be used. Of the frequencies above 30 MHz only those reserved for the amateur service with exclusive rights may be used.

Technical regulations

Section 15

Properties of an amateur radio transmitter

If the amateur radio transmitter is constructed in such a way that it is possible to exceed the maximum output power of the transmitter, the transmitter shall be equipped with a meter enabling a reliable judgement of application of the output limit.

The level of spurious emissions of an amateur radio station shall be as low as possible:

- 1) The attenuation of spurious emissions below 30 MHz shall be at least 40 dB relative to the output power of the transmitter. The peak envelope power of spurious emissions (pX) shall not exceed 10 mW.
- 2) The attenuation of spurious emissions on frequencies exceeding 30 MHz shall be at least 60 dB relative to the output power of the transmitter. The

peak envelope power of spurious emissions (pX) outside the frequency bands allocated to the amateur radio service shall not exceed 25 W.

However, if the spurious emissions cause harmful interference in another radiocommunication service, the values mentioned in paragraph 2 shall be attenuated by a further 20 dB.

The emitted frequency shall be as stable as possible.

Section 16

Properties of an amateur repeater station

The transmitter of an amateur repeater station shall be constructed in such a way that only a starting signal can switch on this transmitter.

The remote-control system of an amateur repeater station shall be such that only the supervisor of the repeater station can control the station.

Entry into force, transition provisions and information

Section 17

Entry into force

This Regulation shall enter into force on 1 January 2002 and remain valid until further notice.

Section 18

Information and publication

This Regulation is included in the Series of Regulations issued by the Finnish Communications Regulatory Authority and it can be obtained from the Customer Service Office of FICORA:

FICORA 6F/2001 M

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Helsinki 21 December 2001

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ANNEX 1**FREQUENCY BANDS AND MAXIMUM TRANSMITTED POWERS ALLOWED IN THE AMATEUR RADIO TRAFFIC**

The terms of an amateur radio station licence may contain exceptions as to the provisions of this Table.

The Finnish Communications Regulatory Authority may, for justified reasons, entitle a radio amateur holding a general class or technician class certificate to use higher powers than those mentioned in the Table, when experimenting.

The reception of radio amateur traffic is also allowed on other radio frequencies than those allocated in this Table.

Abbreviations used in the Table:

sat=	Amateur-satellite service
status=	The status of the amateur service in relation to other radio services in the frequency band used
pex=	Exclusive primary allocation, only amateur service in this band
pri=	On equal primary basis
sec=	On a secondary basis

Notes:

- 1) The right to use the frequency band 135.7 - 137.8 kHz shall be applied to the general class and the technician class only.
- 2) The numerical value means the peak envelope power when the carrier of the transmission is attenuated by at least 6 dB. In other cases the numerical value means the carrier power.
- 3) Peak envelope power 60 W, if the carrier of the transmission is attenuated by at least 6 dB.
- 4) Subject to not causing harmful interference in other services operating within this frequency band.
- 5) Peak envelope power 200 W, if the carrier of the transmission is attenuated by at least 6 dB.
- 6) In the frequency band 50.0 - 52.0 MHz it is allowed to use radio transmitters in the amateur radio traffic all round the clock, observing, however, the following restrictions as to regions and time:
 - a) In the municipalities of Oravainen/Oravais, Vöyri/Vörå, Mustasaari/Korsholm, Vaasa/Vasa, Maalahti/Malax, Korsnäs and Närpiö/Närpes amateur radio transmissions are allowed only at the times when the Television of Sweden does not broadcast programmes through the transmitter of channel E2 in Vännäs.

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- b) It is forbidden to use amateur radio transmitters in the district of Värtsilä municipality.
- 7) Peak envelope power 120 W, if the carrier of the transmission is attenuated by at least 6 dB.
- 8) Peak envelope power 600 W, if the carrier of the transmission is attenuated by at least 6 dB.
- 9) The transmission of the amateur radio station shall be kept within the frequency band in use in all operating conditions. The bandwidth of the transmission must not be unnecessary wide.
- 10) In the bands 435 - 438 MHz, 1260 - 1270 MHz, 2400 - 2450 MHz and 5650 - 5670 MHz, the amateur-satellite service may operate subject to not causing harmful interference in other services.

The bands 1260 - 1270 MHz and 5650 - 5670 MHz are allocated to the amateur service and the amateur-satellite service, limited to the Earth-to-space direction, on a secondary basis.

The band 5830 - 5850 MHz is allocated to the amateur service and the amateur-satellite service (space-to-Earth) on a secondary basis.

TABLE

Frequency bands and maximum powers permitted in the amateur radio traffic

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Frequency band	Status	Max. band-width allowed	Max. transmission power allowed		sat	Notes
			Novice class	General class		
135.7-137.8 kHz	sec			100 W ^{1) 2)}		
1810-1850 kHz	pri	8 kHz		1000 W ²⁾		
1850-1855 kHz	pri	8 kHz		15 W ³⁾		4)
1861-1906 kHz	pri	8 kHz		15 W ³⁾		4)
1912-2000 kHz	pri	8 kHz		15 W ³⁾		4)
3500-3800 kHz	pri	8 kHz	120 W ²⁾	1000 W ²⁾		Fixed and mobile service also on a primary basis
7000-7100 kHz	pex	8 kHz	120 W ²⁾	1000 W ²⁾	sat	
10100-10150 kHz	sec	1 kHz		1000 W ²⁾		4) Fixed service on a primary basis
14000-14250 kHz	pex	8 kHz		1000 W ²⁾	sat	
14250-14350 kHz	pex	8 kHz		1000 W ²⁾		
18068-18168 kHz	pex	8 kHz		1000 W ²⁾	sat	
21000-21450 kHz	pex	8 kHz	120 W ²⁾	1000 W ²⁾	sat	
24890-24990 kHz	pex	8 kHz		1000 W ²⁾	sat	
28000-29700 kHz	pex	8 kHz	120 W ²⁾	1000 W ²⁾	sat	

TABLE (cont'd) Frequency bands and maximum powers permitted in the amateur radio traffic

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Frequency band	Status	Max. band-width allowed	Max. transmitting power allowed		sat	Notes
			Novice class and telecommunications class	General class and technician class		
50.0-52.0 MHz	(sec)	18 kHz		150 W ⁵⁾		^{4) 6)} Broadcasting services on a primary basis. Restrictions in use.
144-146 MHz	pex	18 kHz	30 W ⁷⁾	150 W ⁸⁾	sat	
432-435 MHz	pri	⁹⁾	30 W ⁷⁾	150 W ⁸⁾		Also radiolocation on a primary basis
435-438 MHz	pri	⁹⁾	30 W ⁷⁾	150 W ⁸⁾	sat	¹⁰⁾ Also radiolocation on a primary basis
1240-1260 MHz	sec	⁹⁾		150 W ⁸⁾		Radiolocation and radionavigation-satellite service on a primary basis
1260-1270 MHz	sec	⁹⁾		150 W ⁸⁾	sat	¹⁰⁾ Radiolocation on a primary basis
1270-1300 MHz	sec	⁹⁾		150 W ⁸⁾		Radiolocation on a primary basis
2300-2400 MHz	sec	⁹⁾		150 W ⁸⁾		Fixed services on a primary basis, mobile services and radiolocation on a secondary basis
2400-2450 MHz	sec	⁹⁾		150 W ⁸⁾	sat	¹⁰⁾ Fixed services on a primary basis, mobile services and radiolocation on a secondary basis
3400-3408 MHz	sec	⁹⁾		150 W ⁸⁾		Fixed services on a primary basis
5650-5670 MHz	sec	⁹⁾		150 W ⁸⁾	sat	¹⁰⁾ Radiolocation on a primary basis
5670-5725 MHz	sec	⁹⁾		150 W ⁸⁾		Radiolocation on a primary basis, space research service on a secondary basis
5725-5830 MHz	sec	⁹⁾		150 W ⁸⁾		¹⁰⁾ Radiolocation and fixed satellite service on a primary basis
5830-5850 MHz	sec	⁹⁾		150 W ⁸⁾	sat	¹⁰⁾ Radiolocation and fixed satellite service on a primary basis

TABLE (cont'd) Frequency bands and maximum powers permitted in the amateur radio traffic FICORA 6F/2001 M

Frequency band	Status	Max. band-width allowed	Max. transmitting power allowed		sat	Notes
			Novice class and telecommunications class	General class and technician class		
10.00-10.28 GHz	sec	⁹⁾		150 W ⁸⁾		Radiolocation, fixed and mobile service on a primary basis
10.368-10.370 GHz	sec	⁹⁾		150 W ⁸⁾		Radiolocation, fixed and mobile service on a primary basis
10.45-10.50 GHz	sec	⁹⁾		150 W ⁸⁾	sat	Radiolocation on a primary basis
24.00-24.05 GHz	pri	⁹⁾	30 W ⁷⁾	150 W ⁸⁾	sat	
24.05-24.25 GHz	sec	⁹⁾		150 W ⁸⁾		Radiolocation on a primary basis
47.00-47.20 GHz	pex	⁹⁾	30 W ⁷⁾	150 W ⁸⁾	sat	
75.50-76.00 GHz	pri	⁹⁾	30 W ⁷⁾	150 W ⁸⁾	sat	Allowed up to and including 31 December 2006
76.00-77.50 GHz	sec	⁹⁾		150 W ⁸⁾	sat	Radiolocation on a primary basis
77.50-78.00 GHz	pri	⁹⁾	30 W ⁷⁾	150 W ⁸⁾	sat	
78.00-81.00 GHz	sec	⁹⁾		150 W ⁸⁾	sat	Radiolocation on a primary basis
81.00-81.50 GHz	sec	⁹⁾		150 W ⁸⁾	sat	
122.25-123.00 GHz	sec	⁹⁾		150 W ⁸⁾		
134.00-136.00 GHz	pri	⁹⁾	30 W ⁷⁾	150 W ⁸⁾	sat	
136.00-141.00 GHz	sec	⁹⁾		150 W ⁸⁾	sat	
241.00-248.00 GHz	sec	⁹⁾		150 W ⁸⁾	sat	Radiolocation on a primary basis
248.00-250.00 GHz	pri	⁹⁾	30 W ⁷⁾	150 W ⁸⁾	sat	
275.00-1000.00 GHz		⁹⁾		150 W ⁸⁾		By special permission only, no specification of frequency bands