

**RO-IR 07**  
**TECHNICAL REGULATION**  
**for the radio interface**  
**concerning alarms**

**98/34/EC Notification number: 2014/603/RO**

## 1. Basic considerations

The Radio Equipment and Telecommunications Terminal Equipment Directive 1999/5/EC (R&TTE Directive) was implemented in Romania (RO) by Government Decision No. 130/2015.

This technical regulation contains the necessary equipment parameters for the use of licence exempt alarm systems including social alarms in the specified frequency bands and considers especially compliance with Articles 3.2, 4.1, 6 and 7.2 of Directive 1999/5/EC.

Nothing in this technical regulation shall preclude the need for equipment placed on the market in Romania to comply with Directive 1999/5/EC.

The obligations arising from Directive 98/34/EC of the European Parliament and of the Council of 22 June 1998 laying down a procedure for the provision of information in the field of technical standards and regulations and of rules on Information Society services (OJ L 204 p. 37), as amended by Directive 98/48/EC of the European Parliament and of the Council of 20 July 1998 (OJ L 217 p. 18), have been met.

All Romanian technical regulations notified under Directive 1998/34/EC will be published and will be made available free of charge from the ANCOM web-site at:

[http://www.ancom.org.ro/en/interface-regulations-\\_2723](http://www.ancom.org.ro/en/interface-regulations-_2723)

## 2. Radio Interface Specifications

### Alarms

Frequency band	Annex
868.6 – 868.7 MHz	RO-IR 07-01
869.2 – 869.25 MHz	RO-IR 07-02
869.25 – 869.3 MHz	RO-IR 07-03
869.3 – 869.4 MHz	RO-IR 07-04
869.65 – 869.7 MHz	RO-IR 07-05

For the purpose of this technical regulation, *short-range device (SRD)* means radio transmitters which provide either unidirectional or bidirectional communication and which transmit over a short distance at low power.

The *low duty cycle/high reliability device* category covers radio devices that rely on low overall spectrum utilization and low duty cycle spectrum access rules to ensure highly reliable spectrum access and transmissions in shared bands. Typical uses include *alarm systems* that use radio communication for indicating an alert condition at a distant location and *social alarms* systems that allow reliable communication for a person in distress.

For the purpose of this technical regulation, *non-interference and non-protected basis* means that no harmful interference may be caused to any radio communications service and that no claim may be made for protection of these devices against harmful interference originating from radio communications services.

The use of radio spectrum by short-range device is allowed on a non-interference and non-protected basis provided that such device meets the conditions set out in the Annexes.

ROMANIA	Radio Interface Specification	SRD / Alarms	RO-IR 07-01	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Alarms This set of usage conditions is only available to alarm systems.	
	3	Frequency band	868.6 – 868.7 MHz	<i>Harmonised radio spectrum for use by short-range devices (Decision 2013/752/EU amending Decision 2006/771/EC)</i>
	4	Channelling	25 kHz	<i>The whole frequency band may also be used as a single channel for high-speed data transmission</i>
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW effective radiated power (e.r.p.)	
	8	Channel access and occupation rules	Duty cycle limit: 1 %	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 220; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/603/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Alarms	RO-IR 07-02	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Alarms This set of usage conditions is only available to social alarm devices.	
	3	Frequency band	869.2 - 869.25 MHz	<i>Harmonised radio spectrum for use by short-range devices (Decision 2013/752/EU amending Decision 2006/771/EC)</i>
	4	Channelling	25 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	Duty cycle limit: 0.1 %	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 220; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/603/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Alarms	RO-IR 07-03	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Alarms This set of usage conditions is only available to alarm systems.	
	3	Frequency band	869.25 - 869.3 MHz	<i>Harmonised radio spectrum for use by short-range devices (Decision 2013/752/EU amending Decision 2006/771/EC)</i>
	4	Channelling	25 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	Duty cycle limit: 0.1 %	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 220; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/603/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Alarms	RO-IR 07-04	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Alarms This set of usage conditions is only available to alarm systems.	
	3	Frequency band	869.3 - 869.4 MHz	<i>Harmonised radio spectrum for use by short-range devices (Decision 2013/752/EU amending Decision 2006/771/EC)</i>
	4	Channelling	25 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	10 mW e.r.p.	
	8	Channel access and occupation rules	Duty cycle limit: 1 %	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 220; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/603/RO	
	15	Remarks	-	

ROMANIA	Radio Interface Specification	SRD / Alarms	RO-IR 07-05	Edition 1/ 2014
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	Nr	Parameter	Description	Comments
Normative part	1	Radiocommunication Service	Mobile	
	2	Application	Short Range Devices / Alarms This set of usage conditions is only available to alarm systems.	
	3	Frequency band	869.65 - 869.7 MHz	<i>Harmonised radio spectrum for use by short-range devices (Decision 2013/752/EU amending Decision 2006/771/EC)</i>
	4	Channelling	25 kHz	
	5	Modulation / Occupied bandwidth	-	
	6	Direction / Separation	-	
	7	Transmit power / Power density	25 mW e.r.p.	
	8	Channel access and occupation rules	Duty cycle limit: 10 %	
	9	Authorisation regime	Licence exemption	
	10	Additional essential requirements	-	
	11	Frequency planning assumptions	-	
Informative part	12	Planned changes	-	
	13	Reference	EN 300 220; Decision 2013/752/EU amending Decision 2006/771/EC; ERC/REC 70-03	
	14	Notification number	2014/603/RO	
	15	Remarks	-	