

## **RO-IR 15**

### **TECHNICAL REGULATION**

**for the radio interface**

**concerning PMR 446 Private Mobile Radio Communications equipment**

## 1. Basic Considerations

Directive 2014/53/EU of the European Parliament and of the Council of 16 April 2014 on the harmonisation of the laws of the Member States relating to the making available on the market of radio equipment and repealing Directive 1999/5/EC was implemented in national legislation by Government Decision No. 740/2016 on making available on the market of radio equipment, with subsequent amendments and completions.

This technical regulation contains the requirements for the license exempted radio spectrum usage by radio equipment that are intended for Private Mobile Radio communications in 446 – 446.2 MHz (PMR 446) frequency band and considers compliance, especially with the provisions of Article 3 Paragraph 2 and Articles 6-8 of Directive 2014/53/EU.

This technical regulation does not exclude the obligation that the radio equipment placed on the market or made available on the market in Romania shall comply with the Directive 2014/53/EU.

The obligations arising from Directive (EU) 2015/1535 of the European Parliament and of the Council of 9 September 2015 laying down a procedure for the provision of information in the field of technical regulations and of rules on Information Society services are met by this regulation (OJ L 241, 17.9.2015, pages 1–15).

All Romanian technical regulations for the radio interfaces notified under Directive (EU) 2015/1535 shall be published and made available on National Authority for Management and Regulation in Communications (ANCOM) web-site at: <http://www.ancom.ro/reglementari-interfete> 2723.

## 2. Radio Interface Specifications

### Private Mobile Radio communications PMR 446

Frequency band	Annex
446 – 446.2 MHz	RO-IR 15

For the purpose of this technical regulation, *Short-Range Device (SRD)* means a radio device, which provides unidirectional or bidirectional communication and which receives and/or transmits signals over a short distance and with low power. The category of short-range devices also includes equipment intended for private mobile radio communications (PMR 446).

For the purpose of this technical regulation, equipment that are intended for Private Mobile Radio communications (PMR 446) are of portable type (without use as a base station or repeater) on people or operated manually, using only integrated antennas to maximize sharing and minimize interference. The PMR 446 equipment works in peer-to-peer mode over a short distance and shall not be used as part of an infrastructure network or as a repeater.

For the purpose of this Technical Regulation, *non-interference and non-protected* means that it is not allowed to cause any harmful interference to radio communications service and that it shall not be claimed the protection of these devices against harmful interference originating from radio communications services.

The use of radio spectrum by the equipment that are intended for Private Mobile Radio (PMR 446) is allowed on a non-interference and non-protected basis provided that such devices meet the conditions set out in the Annex below.

### 3. Document history:

Edition	Changes
Edition 1/2011	Notification number according to Directive 98/34/EC: 2011/99/RO.
Edition 2/2018 (18.10.2018)	<p>Update according to Commission Implementing Decision (EU) 2017/1483 amending Decision 2006/771/EC on harmonizing the radio spectrum for the use of short-range devices and repealing Decision 2006/804/EC:</p> <ul style="list-style-type: none"><li>- Change of title</li><li>- Update of radio interface specifications.</li></ul> <p>Update of the legal framework according to Point 1 – „Basic considerations” and reference documents (row 13);</p> <p>Update according to the list of Class 1 radio equipment subclasses (January 2018 version) published according to Article 1 Paragraph 3 of Commission Decision 2000/299/EC (<a href="http://ec.europa.eu/docsroom/documents/26843">http://ec.europa.eu/docsroom/documents/26843</a>) ;</p> <p>Formal changes according to TCAM-RSC pattern of November 2017.</p>
Edition 3/2020 (23.12.2020)	<p>Update according to Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices:</p> <ul style="list-style-type: none"><li>- Update of radio interface specifications;</li><li>- Introduction/updating of some definitions and terms.</li></ul> <p>Update of the legal framework according to Point 1 – „Basic considerations” as well as update of the reference documents (row 13);</p> <p>Update according to the list of Class 1 radio equipment subclasses (January 2020 version) published according to Article 1 Paragraph 3 of Commission Decision 2000/299/EC (<a href="https://ec.europa.eu/docsroom/documents/40361">https://ec.europa.eu/docsroom/documents/40361</a>).</p>

ROMANIA	Radio Interface Specification	SRD / Private Mobile Radio communications PMR 446	RO-IR 15	Edition 3/2020
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	Nr	Parameter	Description	Comments
Normative Part	1	Radiocommunication Service	Mobile	
	2	Application	Short-Range Devices / Private Mobile Radio Communications PMR 446	
	3	Frequency band	446 – 446.2 MHz	<i>Harmonised radio spectrum for use by short-range devices (Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices)</i>
	4	Channeling (channel distribution)	6.25 kHz / 12.5 kHz	<i>Carrier-frequencies [MHz] for 12.5 kHz channeling:</i> 446.006250; 446.018750; 446.031250; 446.043750; 446.056250; 446.068750; 446.081250; 446.093750; 446.106250; 446.118750; 446.131250; 446.143750; 446.156250; 446.168750; 446.181250; 446.193750 <i>Carrier-frequencies [MHz] for 6.25 kHz channeling:</i> 446.003125; 446.009375; 446.015625; 446.021875; 446.028125; 446.034375; 446.040625; 446.046875; 446.053125; 446.059375; 446.065625; 446.071875; 446.078125; 446.084375; 446.090625; 446.096875; 446.103125; 446.109375; 446.115625; 446.121875; 446.128125; 446.134375; 446.140625; 446.146875; 446.153125; 446.159375; 446.165625; 446.171875; 446.178125; 446.184375; 446.190625; 446.196875
	5	Modulation/Occupied bandwidth	-	
	6	Direction/Separation	-	
	7	Transmit power / Power density	Maximum 500 mW effective radiated power (e.r.p.)	<i>The equipment shall use only integrated antenna</i>
	8	Channel occupation and access rules	Requirements on techniques to access spectrum and mitigate interference shall apply.	Techniques to access spectrum and mitigate interference that provide an appropriate performance level to meet the essential requirements provided in Directive 2014/53/EU shall apply. If the relevant techniques are described in the harmonized standards (or parts thereof) the references of which have been published in the Official Journal of the European Union under Directive 2014/53/EU, a performance at least equivalent to the performance of these techniques shall be ensured.
	9	Authorization regime	License exemption	
	10	Additional essential requirements (According to Article 3 Paragraph 3 of 2014/53/EU Directive)	-	

	<b>11</b>	<b>Assumptions on spectrum planning</b>	-	
<b>Informative Part</b>	<b>12</b>	<b>Planned changes</b>	-	
	<b>13</b>	<b>Reference</b>	EN 303 405; Commission Implementing Decision (EU) 2019/1345 amending Decision 2006/771/EC updating harmonised technical conditions in the area of radio spectrum use for short-range devices; ECC/DEC/(15)05; ERC/REC 70-03	
	<b>14</b>	<b>Notification number</b>	-	
	<b>15</b>	<b>Remarks</b>	-	

F1- RTIR Edition:1; Revision:1