

# UK Interface Requirement 2010

Public Paging Services

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## References

ETS 300 113	European Technical Specification - Radio equipment and Systems (RES): Land Mobile Service; Technical characteristics and test conditions intended for the transmission of data (and speech) and having an antenna connector.
ETS 300 133-6	European Technical Specification - Electromagnetic Compatibility and Radio spectrum Matters (ERM); Enhanced Radio Message Systems (ERMES). Base station conformance specification
ETS 300 220	European Technical Specification - Electromagnetic Compatibility and Radio spectrum Matters (ERM); Short Range Devices; Technical Characteristics and test methods for radio equipment to be used in the 25 MHz to 1000 MHz frequency range with power levels ranging up to 500 mW.

## 1. Foreword

- 1.1 The Radio Equipment and Telecommunications Terminal Equipment Directive 99/5/EC (R&TTE Directive) was implemented in the United Kingdom (UK) on the 8 April 2000 by The Radio Equipment and Telecommunications Terminal Equipment Regulations 2000, Statutory Instrument (SI) SI730 of 13 March 2000. In accordance with Articles 4.1 and 7.2 of Directive 1999/5/EC, this UK Interface Requirement contains the requirements for the licensing and use of public paging radio systems in the specified frequency bands.
- 1.2 Nothing in this UK Interface Requirement shall preclude the requirement for equipment to comply with Directive 99/5/EC.
- 1.3 It is required by the Wireless Telegraphy Act 1949 that no radio equipment is installed or used in the UK except under the authority of a licence granted by or otherwise exempted by regulations made by Ofcom. It is a condition of such a licence or exemption regulations as appropriate that the equipment must meet the minimum requirements specified in this UK Interface Requirement for the stated equipment types and for the stated frequency bands.
- 1.4 The requirements given in the main body of this UK Interface Requirement will apply in the licensing of public paging services in the UK.
- 1.5 This UK Interface Requirement will be revised as necessary, for example to follow:
  - i) current technology developments for reasons related to the effective and appropriate use of the spectrum in particular maximising spectrum utilisation; and
  - ii) changes to the available spectrum allocated for private business mobile radio systems.
- 1.6 All UK Interface Requirements notified under Directive 98/34/EC will be published and will be made available free of charge from the Ofcom website. The address for the website is given on the back cover of this document.
- 1.7 Further information on this UK Interface Requirement can be obtained from the technical enquiry contact given on the back of this document.

## **2. Minimum Equipment Requirements for Operation within the UK**

- 2.1 The minimum radio requirements in this document are made for reasons related to the effective and appropriate use of the radio spectrum, in particular maximising spectrum utilisation.
- 2.2 This UK Interface Requirement gives a high level description of how the spectrum in the UK is used for private business mobile radio systems. It does not prescribe a technical interpretation of the 'essential requirements' of Directive 1999/5/EC.
- 2.3 This UK Interface Requirement therefore stipulates the necessary equipment parameters for the licensing of public paging radio equipment in the UK. Tables 2.1 to 2.3 contain the relevant equipment parameters. These together with the 'essential requirement' detailed in Article 3.2 of Directive 1999/5/EC constitute the minimum equipment requirements for public paging radio equipment within the UK.
- 2.4 The technical parameters specified in the UK Interface Requirement are applied to achieve the desired level of compatibility within the Public Paging Service and with other radiocommunications services whilst promoting enterprise, innovation and competition.
- 2.5 This UK Interface Requirement provides the necessary technical information which facilitates access to the Public Paging Service spectrum by making clear the assumptions that are made in planning the use of Public Paging Service spectrum in the UK. It is not the intention of this UK Interface Requirement to duplicate or impose any additional 'essential requirements' of the Directive 1999/5/EC on products. Any specified parameters within this document are for the purpose of identifying product options and not as a national product requirement.

**Table 2.1: Minimum Equipment Requirements for POCSAG/Technology Neutral One Way Services**

Operational Frequency Range	Lower Frequency Limit	Upper Frequency Limit	Additional Technical Information
	130 MHz	155 MHz	1.Licences may not be issued for apparatus using certain frequencies. . 2. Equipment shall be capable of operating on any one channel in the frequency bands allocated
	450 MHz	470 MHz	
Channel Spacing	25 kHz		
Emission Designation	25K0F1D		Necessary bandwidths less that that shown are permitted.
Output Power	100 W		Maximum ERP. Site Clearance considerations may impose additional restrictions on maximum power used on certain channels.
WT-Act Licence Required?	Yes		
T-Act Licence Required?	Yes		
Paging Protocol	Not Defined		

**Table 2.2: Minimum Equipment Requirements for ERMES/Technology Neutral One Way Services**

Operational Frequency Range	Lower Frequency Limit	Upper Frequency Limit	Additional Technical Information
	169 MHz	170 MHz	1. Licences may not be issued for apparatus using certain frequencies. . 2. Equipment shall be capable of operating on any one channel in the frequency bands allocated
Channel Spacing	25 kHz		
Emission Designation	25K0W1D 25K0F1D		Necessary bandwidths less than that shown are permitted.
Output Power	400 W		Maximum ERP. Site Clearance considerations may impose additional restrictions on maximum power used for specific frequencies and locations.
WT-Act Licence Required?	Yes		
T-Act Licence Required?	Yes		

Paging Protocol	Not defined.	
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### Table 2.3: Minimum Equipment Requirements for ERMES/Technology Neutral Two Way Services

Forward path (base – mobile): as in table 2.2 above.

Return path (mobile – base)

Operational Frequency Range	Lower Frequency Limit	Upper Frequency Limit	Additional Technical Information
	870.0 MHz	870.6 MHz	1. Licences may not be issued for apparatus using certain frequencies. 2. Equipment shall be capable of operating on any one channel in the frequency bands allocated.
Channel Spacing	25 kHz		
Emission Designation	25K0F1D 25K0W1D		
Output Power	500 mW		Maximum ERP.
WT-Act Licence Required?	Exemption Order SI 930 applies.		'Subscriber' units for two way paging do not need an individual licence providing that they meet the requirements specified in the exemption order.
T-Act Licence Required?	Yes		This return path is only licensed in conjunction with the forward path.
Paging Protocol	Not defined.		

## **Annex A. Additional Performance Parameters (Informative)**

The following are included for information only and have no regulatory status:

- A.1 Standards ETS 300-113 contains additional performance parameters and limits that the Radiocommunications Agency assume are met by public paging radio equipment using the POCSAG protocol when planning and managing the radio spectrum in the UK.
- A.2 Standard ETS 300 133-6 contains additional performance parameters and limits that Ofcom assumes are met by public paging radio equipment using the ERMES protocol when planning and managing the radio spectrum in the UK.
- A.3 Standard EN 300 220 contains additional performance parameters and limits that Ofcom assumes are met by two-way public paging radio return path equipment when planning and managing the radio spectrum in the UK.
- A.4 For paging protocols and equipment other than those listed in A.1, A.2 and A.3 above, the additional performance parameters and limits that Ofcom assumes are met by the radio equipment when planning and managing the radio spectrum in the UK are contained in standard ETS 300 113.
- A.5 Equipment that does not fulfil these additional performance parameters and limits will not be guaranteed protection in the case of interference.
- A.6 Where equivalent performance parameters and limits are defined in relevant candidate harmonised standards under Directive 99/5/EC, those limits shall take precedence.

## Document history

Draft	Date	Changes
v1.0	15/12/00	Original publication
v1.1	Nov 2004	Updated for Ofcom

**Ofcom**

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