

UK Interface Requirement 2017

Remote meter reading operator services

Published: October 2004

Version: 2.0

98/34/EC notification number: 2000/391/UK

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References

- MPT 1601** Department of Trade and Industry Performance Specification – Technical requirements for the testing, type approval and licensing of Short Range Radio Devices for Remote Meter Reading in the frequency band 183.5 MHz to 184.5 MHz.
- I-ETS 300 220** Interim European Technical Specification - Radio Equipment and Systems (RES); Short Range Devices (SRDs);
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 2000 No. 730. 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 Remote Meter Reading radio systems in the specified frequency bands.
- 1.2 Nothing in this UK Interface Requirement shall preclude the need for equipment to comply with Directive 1999/5/EC.
- 1.3 It is required by the Wireless Telegraphy Act 2006 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 to the Remote Meter Reading services.
- 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 Remote Meter Reading radio systems.
- 1.6 All UK Interface Requirements notified under Directive 1998/34/EC will be published and will be made available free of charge from the Ofcom web- site at www.ofcom.org.uk .
- 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 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 Remote Meter Reading radio systems. It does not prescribe 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 Remote Meter Reading radio systems in the UK. Table 2.1 contains the relevant equipment parameters. These together with the 'essential requirements' detailed in Article 3.2 of Directive 1999/5/EC constitute the minimum equipment requirements for Remote Meter Reading radio systems 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 Remote Meter Reading operator 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 Remote Meter Reading radio spectrum by making clear the assumptions that are made in planning the use of the Remote Meter Reading operator services 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 de facto product requirement.

Table 2.1: minimum equipment requirements for Remote Meter Reading Services

Licence type	Maximum Transmit power ERP (dBW)	Channelling Modulation	Channel occupation rules	Licensing Regime	Frequency Planning Assumptions
Remote Meter Reading	-10				

Frequency band (or bands)			Duplex type & separation (MHz)	Channel Spacing (kHz)	Application/ Licence Type	Radio service
Band		Contiguous Block Edges (MHz)				
Band 3	Start	183.5	Simplex	25	Remote Meter Reading	
	End	183.9				
	Start	183.9		200		
	End	184.5				

Annex A: additional performance parameters (informative)

MPT 1601 defines radio equipment designed for use in the 183.5 to 184.5 MHz band assigned to Remote Meter Reading (RMR) and tested to I-ETS 300 220. Any type of modulation may be used for data transmission. Analogue or digital speech is not permitted over the radio link.

Under MPT 1601 the equipment for type testing shall be submitted under one of the following categories:

- Category 1:** Consumer unit; a transmitter with a maximum effective radiated power of 100 mW, with or without a receiver;
- Category 2:** Node unit; a transmitter, with a maximum effective radiated power of 100 mW, with or without a receiver; or
- Category 3:** Concentrator (Fixed, or Mobile); a transmitter, with a maximum effective radiated power of 100 mW, with or without a receiver.

Document History

Version	Date	Changes
2.0	October 2004	Amended to Ofcom format



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