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HARMONISED EUROPEAN STANDARD

**Land Mobile Service;
Multichannel transmitter specification for the PMR Service;
Harmonised Standard covering the essential requirements
of article 3.2 of the Directive 2014/53/EU**

Reference

REN/ERM-TGDMMR-362

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Contents

Intellectual Property Rights	6
Foreword.....	6
Modal verbs terminology.....	6
1 Scope	7
2 References	8
2.1 Normative references	8
2.2 Informative references.....	8
3 Definitions, symbols and abbreviations	9
3.1 Definitions.....	9
3.2 Symbols.....	11
3.3 Abbreviations	11
4 General and operational requirements.....	12
4.1 General	12
4.1.0 Environmental profile	12
4.1.1 Choice of model for testing	12
4.1.1.0 General.....	12
4.1.1.1 Auxiliary test equipment	12
4.1.1.2 Declarations by the manufacturer	13
4.2 Multi-Mode equipment.....	13
4.3 Testing of equipment that does not have an external 50 Ω RF connector (integral antenna equipment)	13
5 Test conditions, power sources and ambient temperatures	13
5.1 Normal and extreme test conditions	13
5.2 Test power source.....	13
5.3 Normal test conditions.....	14
5.3.1 Normal temperature and humidity	14
5.3.2 Normal test power source	14
5.3.2.1 Mains voltage.....	14
5.3.2.2 Regulated lead-acid battery power sources used on vehicles.....	14
5.3.2.3 Other power sources.....	14
5.4 Extreme test conditions	14
5.4.1 Extreme temperatures	14
5.4.2 Extreme test source voltages.....	14
5.4.2.1 Mains voltage	14
5.4.2.2 Regulated lead-acid battery power sources used on vehicles.....	15
5.4.2.3 Power sources using other types of batteries.....	15
5.4.2.4 Other power sources.....	15
5.5 Procedure for tests at extreme temperatures.....	15
5.5.0 Thermal balance.....	15
5.5.1 Procedure for equipment designed for continuous transmission.....	15
5.5.2 Procedure for equipment designed for intermittent transmission	15
6 General conditions of measurement	16
6.1 Test bandwidth	16
6.2 Test load (artificial antenna).....	16
6.3 Test signals (wanted and unwanted signals).....	16
6.3.0 General.....	16
6.3.1 Transmitter test signals for digital transmissions.....	16
6.3.2 Encoder for digital transmitter measurements	17
6.3.3 Transmitter test signals for analogue transmissions.....	17
6.3.3.0 General	17
6.3.3.1 Test signals for frequency modulated channels.....	17
6.3.3.2 Test signals for amplitude modulated channels.....	17
6.3.3.3 Transmitter effective radiated power test signal (C1)	17
6.4 Transceiver data interface for digital transmissions	17

6.5	Impedance	17
6.6	PEP	18
6.7	Duplex equipment	18
6.8	Modes of operation of the transmitter	18
6.9	Measurement filter definition for digital transmissions.....	18
6.10	Test site and general arrangements for measurements involving the use of radiated fields	18
7	Technical characteristics of the transmitter.....	19
7.1	Transmitter output power (conducted)	19
7.1.0	General.....	19
7.1.1	Definitions	19
7.1.2	Method of measurement	19
7.1.3	Limits.....	19
7.2	Adjacent and alternate channel power.....	20
7.2.1	Definition.....	20
7.2.2	Method of measurement	21
7.2.3	Limits.....	23
7.3	Unwanted emissions.....	24
7.3.1	Definition.....	24
7.3.2	Method of measuring the power level	25
7.3.2.1	Measurement options	25
7.3.2.2	Method of measuring conducted spurious emissions (clause 7.3.2.1 a))	25
7.3.2.3	Method of measuring the effective radiated power (clause 7.3.2.1 b)).....	26
7.3.2.4	Method of measuring wideband noise.....	27
7.3.2.5	Method for measuring frequency conversion oscillator conducted spurious emissions.....	28
7.3.2.6	Method for measuring third order intermodulation products between wanted channels.....	29
7.3.3	Limits.....	29
7.3.3.1	Spurious emissions power.....	29
7.3.3.2	Wideband noise power.....	30
7.3.3.3	Frequency conversion oscillator spurious emission.....	31
7.3.3.4	Third order intermodulation product spurious emission	31
7.4	Intermodulation attenuation.....	32
7.4.0	Applicability	32
7.4.1	Definition.....	32
7.4.2	Method of measurement	32
7.4.3	Limits.....	33
7.5	Transient power measurements	33
7.5.1	Definition.....	33
7.5.2	Method of Measurement.....	33
7.5.3	Limits.....	34
8	Testing for compliance with technical requirements.....	34
8.1	Test conditions, power supply and ambient temperatures	34
8.2	Interpretation of the measurement results	35
Annex A (normative):	Relationship between the present document and the essential requirements of Directive 2014/53/EU	36
Annex B (normative):	Radiated measurement.....	37
B.1	Test sites and general arrangements for measurements involving the use of radiated fields.....	37
B.1.0	General	37
B.1.1	Anechoic chamber.....	37
B.1.2	Anechoic chamber with a conductive ground plane.....	38
B.1.3	Open Area Test Site (OATS)	39
B.1.4	Test antenna.....	40
B.1.5	Substitution antenna	40
B.1.6	Measuring antenna	41
B.2	Guidance on the use of radiation test sites	41
B.2.0	General	41
B.2.1	Verification of the test site	41
B.2.2	Preparation of the EUT.....	41

B.2.3	Power supplies to the EUT	41
B.2.4	Range length.....	41
B.2.5	Site preparation	42
B.3	Coupling of signals.....	43
B.3.0	General	43
B.3.1	Data signals	43
Annex C (normative): Specification for some particular measurement arrangements.....		44
C.1	Spectrum analyser specification.....	44
C.1.1	Adjacent and alternate channel power measurement.....	44
C.1.2	Unwanted emissions measurement.....	44
C.2	Integrating and power summing device	45
Annex D (informative): Change History		46
History		47

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Foreword

This Harmonised European Standard (EN) has been produced by ETSI Technical Committee Electromagnetic compatibility and Radio spectrum Matters (ERM).

The present document has been prepared under the Commission's standardisation request C(2015) 5376 final [i.4] to provide one voluntary means of conforming to the essential requirements of Directive 2014/53/EU 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 [i.3].

Once the present document is cited in the Official Journal of the European Union under that Directive, compliance with the normative clauses of the present document given in table A.1 confers, within the limits of the scope of the present document, a presumption of conformity with the corresponding essential requirements of that Directive, and associated EFTA regulations.

National transposition dates	
Date of latest announcement of this EN (doa):	31 January 2016
Date of latest publication of new National Standard or endorsement of this EN (dop/e):	31 July 2017
Date of withdrawal of any conflicting National Standard (dow):	31 July 2018

Modal verbs terminology

In the present document "**shall**", "**shall not**", "**should**", "**should not**", "**may**", "**need not**", "**will**", "**will not**", "**can**" and "**cannot**" are to be interpreted as described in clause 3.2 of the [ETSI Drafting Rules](#) (Verbal forms for the expression of provisions).

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1 Scope

The present document covers the technical requirements for multiple channel radio transmitters used in stations in the Private Mobile Radio (PMR) service.

It applies to use in the land mobile service, operating on radio frequencies between 30 MHz and 3 GHz, with channel separations of < 10 kHz, 12,5 kHz, 20 kHz, 25 kHz, 50 kHz, 100 kHz and 150 kHz.

Table 1: Radiocommunications service frequency bands

Radiocommunications service frequency bands	
Transmit	30 MHz to 3 000 MHz

It applies to equipment for continuous and/or discontinuous transmission of data and/or digital speech and/or analogue speech and using constant envelope or non-constant envelope modulation.

The equipment comprises a transmitter capable of simultaneous amplification or transmission on two or more RF channels, or an amplifier which when operated with transmitter equipment provides simultaneous transmission on two or more RF channels. The types of equipment covered by the present document are as follows:

- base station (equipment fitted with an antenna connector, intended for use in a fixed location);
- mobile station (equipment fitted with an antenna connector, normally used in a vehicle or as a transportable);
- those hand portable stations:
 - a) fitted with an antenna connector; or
 - b) without an external antenna connector (integral antenna equipment), but fitted with a permanent internal or a temporary internal 50 Ω Radio Frequency (RF) connector which allows access to the transmitter output; and
- any equipment that may be used in combination with any of the above equipments when directly connected to those equipments for the amplification of the transmitter output signals of two or more individual equipments.

Types of equipment not covered by the present document are as follows:

- hand portable equipment without an external or internal RF connector and without the possibility of having a temporary internal 50 Ω RF connector is not covered by the present document;
- any equipment using passive combining solutions where each transmitter connected to the passive combining system transmits on a single channel, as detailed in ETSI EG 200 053 [i.2], clause H.3.

These specifications apply to the transmitter or transmitter amplifier only. If a receiver is fitted to the same equipment, the receiver specifications in the relevant specification (references [i.5] to [i.12]) also apply.

These specifications do not necessarily include all the characteristics that may be required by a user of equipment, nor do they necessarily represent the optimum performance achievable.

In addition to the present document, other ENs that specify technical requirements in respect of essential requirements under other parts of article 3 of the Radio Equipment Directive [i.3] may apply to equipment within the scope of the present document.