
TECHNICAL SPECIFICATION

Requirements for Detection of Movement Equipment, Tanks Level Probing Radar Applications and Ancillary Equipment (Radiodetermination Applications)

TS RE 022, Version 1.0

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1 General requirements

Technical specification has been prepared and approved by the Telecommunications Regulatory Authority (TRA) based on the Telecommunication apparatus Type Approval Regime. Several technical specifications may apply to the equipment. If equipment within the scope of this technical specification also incorporates functions that are covered by another technical specification, the relevant technical specification is applied to each function separately. The influence of one function on the other is taken into account.

2 Scope

This technical specification applies to Detection of Movement Equipment, Tanks Level Probing Radar Applications and Ancillary Equipment (Radiodetermination Applications).

This technical specification defines minimum technical requirements for health and safety, electromagnetic compatibility, efficient use of radio spectrum and additional essential requirements based on the Telecommunication apparatus Type Approval Regime.

Unless the context requires otherwise, the expressions and wordings appearing in the Telecommunication apparatus Type Approval Regime shall have the same meaning described thereto.

3 Technical Requirements

3.1 Efficient use of radio spectrum

The equipment shall comply with allocated frequency bands given in the National Frequency Allocation Table (NFAT).

Frequency allocation and power limits for particular frequency bands:

- frequency bands, maximum output power and applicable specification for use by detection of movement applications: 1 GHz - 40 GHz: EN 300 440-1 (Clause 7.1.3)
- frequency bands, maximum output power and applicable specification for use by Tank Level Probing Radar (TLPR): 5,8 GHz, 10 GHz, 25 GHz, 61 GHz and 77 GHz: EN 302 372-1 (Clause 8.3.3 and 8.4.3)

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The equipment shall meet the requirements of following standard(s):

EN 300 440-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices; radio equipment to be used in the 1 GHz to 40 GHz frequency range; Part 2: Harmonized EN under Article 3.2 of the R&TTE directive.

EN 302 372-2 Electromagnetic compatibility and Radio spectrum Matters (ERM); Short Range Devices (SRD); Equipment for Detection and Movement; Tanks Level Probing Radar (TLPR) operating in the frequency bands 5.8, 10, 25, 61 and 77 GHz; Part 2: Harmonized EN under Article 3.2 of the R&TTE directive.

3.2 Electromagnetic compatibility

The equipment shall meet the requirements of following standard(s):

EN 301 489-1 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 1: Common technical requirements.

EN 301 489-3 Electromagnetic compatibility and Radio spectrum Matters (ERM); Electromagnetic Compatibility (EMC) standard for radio equipment and services; Part 3: Specific conditions for Short Range Devices (SRD) operating on frequencies between 9 kHz and 40 GHz.

3.3 Health and safety

The equipment shall meet the requirements of Technical specification TS HS 001.

3.4 Additional essential requirements

No additional requirements.

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3.5 Validity of standards

If no issue or revision number is quoted along with the title of a standard, the valid edition should be used. The valid of the standard can be checked on:

- For EN standards:

http://ec.europa.eu/growth/single-market/european-standards/harmonised-standards/rte/index_en.htm;