

We: **EnOcean GmbH**
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Inform: **that the following components (radio modules)**

TCM 515, TCM 500

which are designed for integration into final OEM products, are pre-assessed according to the technical requirements of the standards and directives detailed below.

Directives: **Radio Equipment Directive, RED 2014/53/EU**

Restriction of Hazardous Substances in Electrical and Electronic Equipment Directive (RoHS) 2011/65/EU, (Annex 2015/863/EU)

Standards used: **EN 301489-3:V2.1.1**

Electromagnetic compatibility and Radio spectrum Matters (ERM), Part 3: Specific conditions for Short-Range Devices (SRD) operating on frequencies between 9 kHz and 246 GHz

EN 61000-4-2:2009, EN 61000-4-3:2006+A1:2008+A2:2010

Electromagnetic compatibility (EMC)

Part 4-2: Testing and measurement techniques - Electrostatic discharge immunity test

Part 4-3: Testing and measurement techniques - Radiated, radio-frequency, electromagnetic field immunity test

EN 300220-2:V3.1.1

Short Range Devices (SRD) operating in the frequency range 25 MHz to 1000 MHz - Part 2: Harmonised Standard covering the essential requirements of article 3.2 of the Directive 2014/53/EU for non-specific radio equipment

EN 62479:2010

Assessment of the compliance of low power electronic and electrical equipment with the basic restrictions related to human exposure to electromagnetic fields (10 MHz to 300 GHz)

Mandatory requirements for integration

The EnOcean radio modules, specified above, are components which are delivered to OEM manufacturers for their use (integration) in final or combined products.

It is the responsibility of the OEM manufacturer to demonstrate compliance of the end-product with all applicable EU directives and standards. The EnOcean list of assessed directives and standards serves as input to the declaration of conformity for the final product.

EnOcean provides specific test reports upon request, for the before mentioned components based on a reference implementation. The OEM manufacturer is responsible for the approval of the end-product and can use the test reports provided by EnOcean where applicable. Details and conditions are described in the product-specific user manuals.

Additional hints:

At the time of writing following documents guidance have been published:
Blue Guide:

https://ec.europa.eu/growth/content/%E2%80%98blue-guide%E2%80%99-implementation-eu-product-rules-0_en

RED Guide:

<http://ec.europa.eu/docsroom/documents/23321>

OEM manufacturers have at least to fulfill the following requirements:

- Integration of EnOcean modules have to follow technical specification and reference designs of the respective module
- Product safety, e.g. EN62368 has to be demonstrated by the end-product of the OEM manufacturer
- Provide product branding clearly identifying company name or brand and product name as well as type, charge or serial number for market surveillance
- Include documentation containing full postal address of the manufacturer as well as radio frequency band and maximum transmitting power
- Include a user manual, safety information and a declaration of conformity for the final product in local language
- Provide product development and test documentation upon request

If OEM manufacturers need further assistance, we recommend to contact an accredited test house for detailed guidance.

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