

We: **EnOcean GmbH**
Kolpingring 18a
D 82041 Oberhaching
Germany

Inform: **that the following components (radio modules)**
TCM 300, TCM 310, TCM 315, TCM 330, STM 300

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 61000-3-2:2014, EN 61000-3-3:2013

Electromagnetic compatibility (EMC)

Part 3-2: Limits - Limits for harmonic current emissions

Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems

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.

Place of issue: Oberhaching

Date of issue: Jan 25, 2021

Andreas Schneider
Chief Executive Officer

We: **EnOcean GmbH**
Kolpingring 18a
D 82041 Oberhaching
Germany

Declare: **under our sole responsibility that the following labelled products**

Transceiver: TCM 515

to which this declaration is related, are, when used as specified, in conformity with the technical requirements of the standards and the provisions of the essential requirements of the 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

Standards used: **EN 301489-3:V1.6.1**

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 61000-3-2:2014, EN 61000-3-3:2013

Electromagnetic compatibility (EMC)

Part 3-2: Limits - Limits for harmonic current emissions

Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems

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)

EN 60950-1:2006+A11:2009+A1:2010+A12:2011+A2:2013

Information technology equipment - Safety

Part 1: General requirements

Recommendations: **ERC Recommendation 70-03**

Important hints:

The Radio Equipment Directive (RED) replaces the old R&TTE directive from 1999 as the regulatory framework for radio products in the European Union. All products sold to final customers after 12th of June, 2017 have to be compliant with RED. At the time of writing, the text of the RED legislation was available from this link: <http://eur-lex.europa.eu/eli/dir/2014/53/oj>

RED approval is only valid for products in delivery state, including standard hardware and software.

Dolphin radio modules 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 with all applicable EU directives and standards. The EnOcean declaration of conformity serves as input to the declaration of conformity for the final product.

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

Blue Guide:

<http://ec.europa.eu/DocsRoom/documents/18027/>

RED Guide:

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

Specifically, within the new RED framework, all OEM manufacturers have for instance to fulfill the following additional requirements:

- 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

Please contact an accredited test house for detailed guidance.

Place of issue: Oberhaching
Date of issue: June 02, 2017



Andreas Schneider
Chief Executive Officer

We: **EnOcean GmbH**
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Germany

Declare: **under our sole responsibility that the following labelled products**

Transmitter: PTM 210, PTM 215

to which this declaration is related, are, when used as specified, in conformity with the technical requirements of the standards and the provisions of the essential requirements of the 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 301489-1:V2.2.3, EN 301489-3:V2.1.1**

Electromagnetic compatibility and Radio spectrum Matters (ERM),
Part 1: Common technical requirements
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 55032:2015

Electromagnetic compatibility of multimedia equipment - Emission Requirements

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)

EN 62368-1:2014+A11:2017

Audio/Video, information and communication technology equipment Part 1: Safety requirements

Recommendations: **ERC Recommendation 70-03**

Important hints:

RED approval is only valid for products in delivery state, including standard hardware and software.

EnOcean radio modules 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 with all applicable EU directives and standards. The EnOcean declaration of conformity serves as input to the declaration of conformity for the final product.

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

Blue Guide:

<http://ec.europa.eu/DocsRoom/documents/18027/>

RED Guide:

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

Specifically, within the new RED framework, all OEM manufacturers have for instance to fulfill the following additional requirements:

- 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 (868,300 MHz) 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.

Place of issue: Oberhaching
Date of issue: Oct 16, 2020



Andreas Schneider
Chief Executive Officer