

- We:** **EnOcean GmbH**  
**Kolpingring 18a**  
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**Germany**
- Inform:** **that the following components (radio modules)**  
**TCM 320**  
**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](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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