

EWSXZ / EWSXZG (REVISION DC)  
EASYFIT ZIGBEE WALL SWITCHES

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EWSxZ / EWSxZG (Revision DC)

EASYFIT ZigBee Wall Switches

17 July 2023



Observe precautions! Electrostatic sensitive devices!

Patent protected:  
WO98/36395, DE 100 25 561, DE 101 50 128,  
WO 2004/051591, DE 103 01 678 A1, DE 10309334,  
WO 04/109236, WO 05/096482, WO 02/095707,  
US 6,747,573, US 7,019,241

EWSXZ / EWSXZG (REVISION DC)  
EASYFIT ZIGBEE WALL SWITCHES

**REVISION HISTORY**

The following major modifications and improvements have been made to this document:

Version	Author	Reviewer	Date	Major Changes
1.0	AA	MKA	05.03.2020	Initial Release
2.0	MKA	MKA	17.07.2023	Update for product revision DC

**Published by EnOcean GmbH, Kolpingring 18a, 82041 Oberhaching, Germany**  
**www.enocean.com, info@enocean.com, phone +49 (89) 6734 6890**

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**Important!**

This information describes the type of component and shall not be considered as assured characteristics. No responsibility is assumed for possible omissions or inaccuracies. Circuitry and specifications are subject to change without notice. For the latest product specifications, refer to the EnOcean website: <http://www.enocean.com>.

As far as patents or other rights of third parties are concerned, liability is only assumed for modules, not for the described applications, processes and circuits.

EnOcean does not assume responsibility for use of modules described and limits its liability to the replacement of modules determined to be defective due to workmanship. Devices or systems containing RF components must meet the essential requirements of the local legal authorities.

The modules must not be used in any relation with equipment that supports, directly or indirectly, human health or life or with applications that can result in danger for people, animals or real value.

Components of the modules are considered and should be disposed of as hazardous waste. Local government regulations are to be observed.

**Disposal**

*Product*

Dispose of the used components at an official collection point for electronic waste or at your local dealer.



*Packing*

Please use the recycling operators known to you.

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## 1 GENERAL DESCRIPTION

### 1.1 Basic functionality

EnOcean Easyfit ZigBee Single / Double Rocker Wall Switch (EWSSZ / EWSDZ jointly referred to as EWSxZ, EWSSZG / EWSDZG jointly referred to as EWSxZG) are universal energy harvesting ZigBee switches in the European 55 x 55 wall switch form factor. EWSxZ are based on the maintenance free ZigBee push button transmitter module PTM 215ZE, EWSxZG are based on the maintenance free ZigBee push button transmitter module PTM 216Z.

This User Manual provides an overview of the EWSxZ and EWSxZG finished products. For a detailed technical description of EWSxZ products, please refer to the PTM 215ZE User Manual available at:

[https://www.enocean.com/en/products/enocean\\_modules\\_24ghz/ptm-215ze/](https://www.enocean.com/en/products/enocean_modules_24ghz/ptm-215ze/)

For a detailed technical description of EWSxZG products, please refer to the PTM 216Z User Manual available at:

[https://www.enocean.com/en/products/enocean\\_modules\\_24ghz/ptm-216z/](https://www.enocean.com/en/products/enocean_modules_24ghz/ptm-216z/)

The used PTM modules contain an electro-dynamic energy transducer which is actuated by the rocker movement. Whenever a rocker is pushed down or released, electrical energy is created and ZGP radio frame is transmitted identifying the rocker status (pushed or released). „Long“ or „Short“ rocker press (the time between pushing and releasing the rocker) can be calculated by the receiver. This enables switching, dimming control or jalousie control including slat action.

Figure 1 below shows the single rocker (EWSSZ or EWSsZG) and double rocker (EWSDZ or EWSDZG) product variants.



**Figure 1 – EWSSZ / EWSSZG (single rocker) and EWSDZ or EWSDZG (double rocker)**

### 1.2 Ordering information

Type	Ordering Code
<b>EWSSZ</b>	E8271-A270:DC
<b>EWSDZ</b>	E8271-A280:DC
<b>EWSSZG</b>	E8271-A276:DC
<b>EWSDZG</b>	E8271-A286:DC

## EWSXZ / EWSXZG (REVISION DC) EASYFIT ZIGBEE WALL SWITCHES

### 1.3 Technical data

<b>Antenna</b>	Integrated PCB antenna
<b>Output Power</b>	Max. +7dBm / 5mW (measured)
<b>Communication Range</b>	Typ. 175 m free field / 20 m indoor (guidance only)
<b>Radio Protocol</b>	2.4 GHz, IEEE 802.15.4
<b>Communication Standard</b>	ZigBee Green Power: EWSxZ = Generic Switch, EWSxZG = ZGP
<b>Default Radio Channel</b>	Channel 11
<b>Radio Channel Selection</b>	Channel 11..26, user-selectable (commissioning)
<b>Device Identification</b>	Individual 32 Bit device ID (factory programmed)
<b>Security</b>	AES128 (CBC) authentication with sequence counter
<b>Power Supply</b>	Integrated Kinetic Energy Harvester
<b>Inputs</b>	Single or Double Rocker
<b>Operating Travel / Operating Force</b>	approx. 2 mm / 7 N (at room temperature)
<b>Switching Cycles</b>	> 50.000 operations according to EN 60669 / VDE 0632

### 1.4 Physical dimensions, mounting options

<b>Total Installation Height</b>	14 mm (frame lies directly against the wall)
<b>Dimensions of Single Rocker</b>	50 x 50 mm
<b>Dimensions of Double Rocker</b>	25 x 50 mm (for each of the two rockers)
<b>Dimensions of Frame Insert</b>	55 x 55 mm
<b>Dimensions of Central Plate</b>	71 x 71 mm
<b>Dimensions of Frame</b>	81 x 81 mm
<b>Mounting</b>	Gluing or screwing onto flat surface (double sided gluing tape enclosed)

### 1.5 Environmental conditions

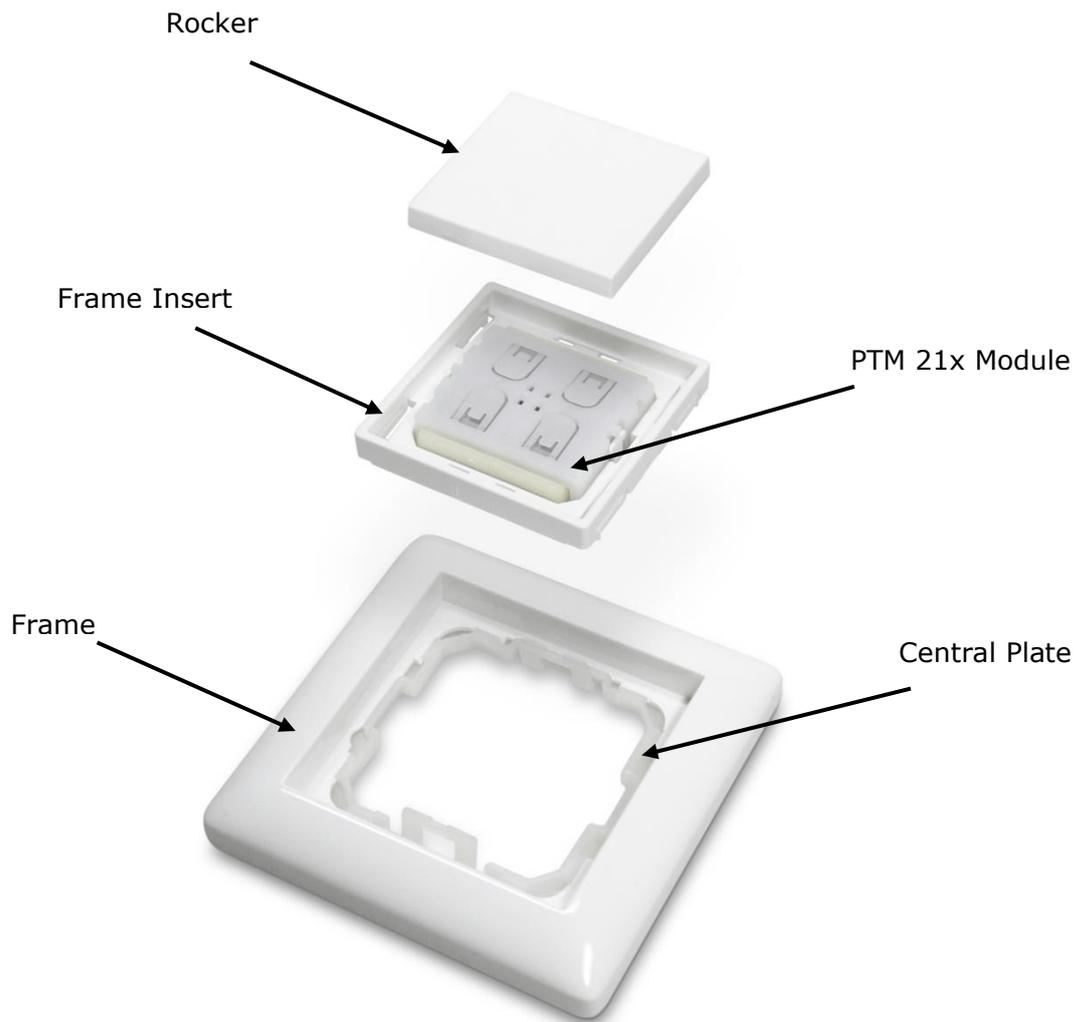
<b>Operating Temperature</b>	-25°C ... 65°C
<b>Storage Temperature</b>	-25°C ... 65°C
<b>Humidity</b>	0% to 95% r.h. (non-condensing, dry environments only)

### 1.6 Packaging information

<b>Packaging Unit</b>	10 units
<b>Packaging Method</b>	Each unit packed in a bag, 10 units packed in a box

EWSXZ / EWSXZG (REVISION DC)  
EASYFIT ZIGBEE WALL SWITCHES**2 FUNCTIONAL INFORMATION****2.1 Product overview**

The different components of EWS are shown in Figure 2 below.



**Figure 2 – Components of Easyfit Single Rocker Wall Switch**

## EWSXZ / EWSXZG (REVISION DC) EASYFIT ZIGBEE WALL SWITCHES

### 2.2 Compatible Frames

Single and double rocker wall switch are shipped with an "Opus 55 Inform" frame. The switch frame can be replaced by frames of the design programs listed in Table 1 below.

Manufacturer	Product Program
BERKER	S1, B1, B3, B7 Glas
GIRA	Standard 55, E2, E3, Event, Esprit, ClassiX
Jäger Direkt	Opus 55 Inform, Opus 55 Kubus, Opus 55 Fusion
JUNG	AS 500, A 500, A plus, A creation, A creation Glas
MERTEN	1-M, M-Smart, M-Arc, M-Plan, M-Creativ, M-Pure

**Table 1 – EWS compatible switch frames**

### 2.3 User Interface

EWS are implemented based on the EnOcean PTM 21x module which is shown in below.



**Figure 3 – PTM 21x module (shown with and without rocker)**

The PTM 21x module provides four button contacts which are actuated by one (single) rocker (EWSSZ or EWSSZG) or two (double) rockers (EWSDZ or EWSDZG).

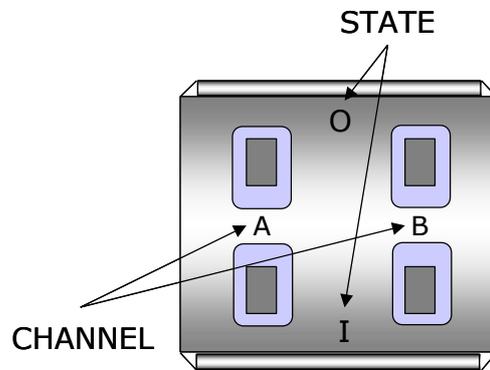
The button contacts of the PTM 21x module are grouped into two channels (Channel A and Channel B) with each channel containing two button contacts (State 0 and State I).

For the double rocker variant EWS, each channel is actuated by one of the two rockers. In case of the single rocker variant EWS, only channel B is actuated by the single rocker.

The state of all four button contacts (pressed or not pressed) is transmitted together with a unique device identification (device ID) whenever a rocker is pushed or released.

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Figure 4 below shows the arrangement of the four button contacts on the PTM 21x module and their designation.



**Figure 4 – Button contact designation of the PTM 21x module**

Please refer to the PTM 215ZE or to the PTM 216Z User Manual for detailed technical information about the PTM module.

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### 3 PRODUCT LABEL

#### 3.1 Device Label Content

Each EWSxZ or EWSxZG product contains a device label which identifies the following parameters in writing:

- Product name (EWSSB in following example)
- Product revision (DA-01 in following example)
- Manufacturing date (week 10, 2017 in following example)
- Static Source Address (E21501234567 in following example)
- Manufacturer and Serial Number (07123456 in following example)

The device label shown in Figure 5 below also encodes certain parameters within an automatically readable QR code in the lower right corner.



**Figure 5 – EWSSZ device label**

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### 3.2 QR Code Format

The QR code used on the EWS product label encodes the product parameters based on the following structure:

<b>Data Identifier</b>	<b>Data Length (excluding identifier)</b>	<b>Data Content</b>
30S	12 characters	Source Address (hexadecimal)
Z	32 characters	Security Key 1 (hexadecimal)
3Z	32 characters	Security Key 3 (16 byte hex)
31Z	8 characters	NFC Pin Code (4 byte hex)
30P	10 characters	Ordering Code
2P	4 characters	Step Code and Revision
S	8 characters (including leading zero)	Serial number (starting with 07)

**Table 2 – EWS product QR code structure**

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**4 APPLICATION INFORMATION****4.1 Transmission Range**

The main factors that influence the system transmission range are:

- Type and location of the antennas of receiver and transmitter
- Type of terrain and degree of obstruction of the link path
- Sources of interference affecting the receiver
- "Dead spots" caused by signal reflections from nearby conductive objects.

Since the expected transmission range strongly depends on this system conditions, range tests should always be performed to determine the reliably achievable range under the given conditions.

The following figures should be treated as a rough guide only:

- Line-of-sight connections  
Typically 10 m range in corridors, up to 30 m in halls
- Plasterboard walls / dry wood  
Typically 10 m range, through max. 2 walls
- Ferro concrete walls / ceilings  
Typically 5 m range, through max. 1 ceiling (depending on thickness)
- Fire-safety walls, elevator shafts, staircases and similar areas should be considered as shielded

The angle at which the transmitted signal hits the wall is very important. The effective wall thickness – and with it the signal attenuation – varies according to this angle. Signals should be transmitted as directly as possible through the wall. Wall niches should be avoided.

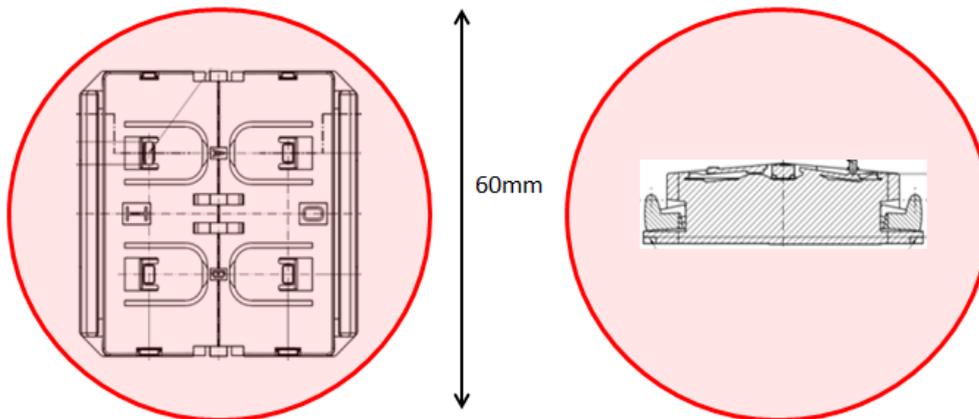
Other factors restricting transmission range include:

- Switch mounting on metal surfaces (up to 30% loss of transmission range)
- Hollow lightweight walls filled with insulating wool on metal foil
- False ceilings with panels of metal or carbon fibre
- Lead glass or glass with metal coating, steel furniture

The distance between the receiver and other transmitting devices such as computers, audio and video equipment that also emit high-frequency signals should be at least 0.5 m.

**EWSxZ / EWSxZG (REVISION DC)  
EASYFIT ZIGBEE WALL SWITCHES****4.2 External magnets**

EWSxZ and EWSxZG wall switches are powered by an electromagnetic energy generator. For proper function magnets or ferromagnetic materials are not permitted within a keep-out zone of 60mm around the center of the PTM 215ZE or PTM 216Z module as shown below.



**EWSXZ / EWSXZG (REVISION DC)  
EASYFIT ZIGBEE WALL SWITCHES****5 REGULATORY INFORMATION**

The PTM 215ZE module within EWSSZ and EWSDZ and the PTM 216Z module within EWSSZG and EWSDZG have been certified according to FCC (US), IC (CA), CE (EU), UKCA (UK) and ARIB (Japan) regulations. Changes or modifications not expressly approved by EnOcean could void the user's authority to operate the equipment.

**5.1 Market Approval for European Union (CE)**

Hereby, EnOcean GmbH declares that the radio equipment's EWSSZ, EWSDZ, EWSSZG, and EWSDZG are in compliance with the technical requirements of the standards and the provisions of the essential requirements of the Directives listed in the EU Declaration of Conformity (DoC). The DoC is available for download at the product website. Test reports are available on request.



The final product package including EWSSB and/or EWSDB must meet all necessary application specific requirements for CE conformity (e.g., building automation application, branding, address, product safety information, WEEE registration and packaging). The OEM customer (B2B) is responsible for the final product documentation (local language) and must register at EU specific recycling organizations.

**5.2 Market Approval for United Kingdom (UKCA)**

During a transition period, the United Kingdom will continue to accept products using the EU (CE) market approval as described above. Test reports are available on request.



The final product package of EWSSZ, EWSDZ, EWSSZG and EWSDZG products must meet the necessary application specific requirements for UKCA conformity (e.g., building automation application, UK WEEE registration and packaging). The OEM customer is responsible for the final product documentation and must register at UK specific recycling organizations.

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**5.3 FCC (United States)**

**5.3.1 Certificate**

**TCB**

GRANT OF EQUIPMENT  
AUTHORIZATION

**TCB**

Certification  
Issued Under the Authority of the  
Federal Communications Commission  
By:

Timco Engineering, Inc.  
849 NW State Road 45  
Newberry, FL 32669

Date of Grant: 04/07/2022  
Application Dated: 04/07/2022

**EnOcean GmbH**  
**Kolpingring 18a**  
**Oberhaching, 82041**  
**Germany**

**Attention: Armin Anders , Director Product Marketing**

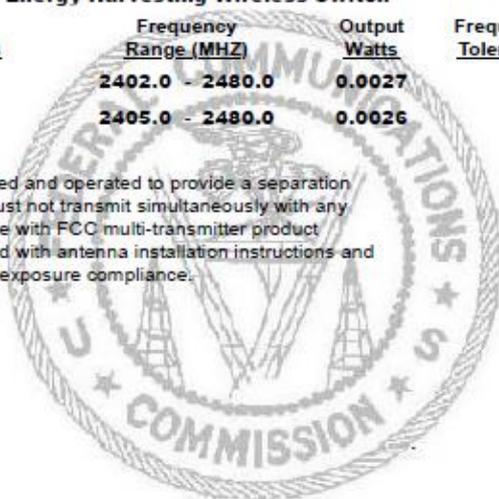
**NOT TRANSFERABLE**

EQUIPMENT AUTHORIZATION is hereby issued to the named GRANTEE, and is VALID ONLY for the equipment identified hereon for use under the Commission's Rules and Regulations listed below.

**FCC IDENTIFIER:** SZV-PTM215BZ  
**Name of Grantee:** EnOcean GmbH  
**Equipment Class:** Digital Transmission System  
**Notes:** Energy Harvesting Wireless Switch

<u>Grant Notes</u>	<u>FCC Rule Parts</u>	<u>Frequency Range (MHZ)</u>	<u>Output Watts</u>	<u>Frequency Tolerance</u>	<u>Emission Designator</u>
	15C	2402.0 - 2480.0	0.0027		
	15C	2405.0 - 2480.0	0.0026		

Power listed is conducted. Device must be installed and operated to provide a separation distance of at least 20cm from all persons and must not transmit simultaneously with any other antenna or transmitter, except in accordance with FCC multi-transmitter product procedures. Users and installers must be provided with antenna installation instructions and transmitter operating conditions for satisfying RF exposure compliance.



**EWSXZ / EWSXZG (REVISION DC)  
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**5.3.2 Regulatory Statement**

This device complies with Part 15 of the FCC rules. Operation is subject to the following two conditions:

1. This device may not cause harmful interference, and
2. This device must accept any interference received, including interference that may cause undesired operation.

To comply with FCC/IC RF exposure limits for general population / uncontrolled exposure, the antenna(s) used for this transmitter must be installed to provide a separation distance of at least 20 cm from all persons and must not be co-located or operating in conjunction with any other antenna or transmitter.

**Warning**

Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

**Interference**

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to Part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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**5.4 ISED (former Industry Canada)**

**5.4.1 Certificate**



**CANADIAN CERTIFICATION  
TECHNICAL ACCEPTANCE CERTIFICATE**

<b>Certification No.</b>	➤ IC: 5713A-PTM215BZ
<b>Issued To</b>	➤ EnOcean GmbH Kolpingring 18A Oberhaching 82041 Germany
<b>Tested By</b>	➤ VPI Laboratories, Inc. Company No.: 2041B 313 W. 12800 S. Suite 311 Draper, UT 84020 United States 801-260-4050; jasons@vpitech.com
<b>Type of Equipment</b>	➤ Other
<b>Type of Service</b>	➤ New Family Certification
<b>Hardware Version Id Number (HVIN)</b>	➤ PTM 215Z FOH (DB) ➤ PTM 215ZE (DB) ➤ PTM 216B ➤ PTM 216Z (DB)
<b>Firmware Version Id Number (FVIN)</b>	➤ N/A
<b>Product Marketing Name: (PMN)</b>	➤ PTM 215Z FOH (DB), PTM 215ZE (DB), PTM 216B, PTM 216Z (DB)
<b>Host Marketing (HMN)</b>	➤ N/A

FREQUENCY RANGE	EMISSION DESIGNATIONS NECESSARY BANDWIDTH & EMISSION CLASSIFICATION	R.F. POWER	ANTENNA INFO	SPECIFICATION/ ISSUE & DATE
2402 – 2480 MHz	1M07F1D	0.0037 – 0.0039 W	Trace, 1.5dBi	RSS-247 Issue 2; Feb. 2017
2402 – 2480 MHz	2M08F1D	0.0036 – 0.0037 W	Trace, 1.5dBi	RSS-247 Issue 2; Feb. 2017
2405 – 2480 MHz	2M30F1D	0.0036 – 0.0037 W	Trace, 1.5dBi	RSS-247 Issue 2; Feb. 2017

Note 1: This equipment also complies with RSS-102, Issue 5 (March 2015) and RSS-Gen, Issue 5 (April 2018).

Certification of equipment means only that the equipment has met the requirements of the above-noted specification. Licence applications, where applicable to use certified equipment, are acted on accordingly by the ISED issuing office and will depend on the existing radio environment, service and location of operation. This certificate is issued on condition that the holder complies and will continue to comply with the requirements and procedures issued by ISED. The equipment for which this certificate is issued shall not be manufactured, imported, distributed, leased, offered for sale or sold unless the equipment complies with the applicable technical specifications and procedures issued by ISED.

La certification de l'équipement signifie uniquement que l'équipement a satisfait aux exigences de la spécification susmentionnée. Les demandes de licence, le cas échéant pour utiliser un équipement certifié, sont traitées en conséquence par le bureau émetteur d'ISED et dépendront de l'environnement radio, du service et du lieu d'exploitation existants. Ce certificat est délivré à condition que le titulaire se conforme et continuera de se conformer aux exigences et procédures émises par ISED. L'équipement pour lequel ce certificat est délivré ne doit pas être fabriqué, importé, distribué, loué, mis en vente ou vendu à moins que l'équipement ne soit conforme aux spécifications et procédures techniques applicables émises par ISED.

I hereby attest that the subject equipment was tested and found in compliance with the above-noted specifications.

J'atteste par la présente que le matériel a fait l'objet d'essai et jugé conforme à la spécification ci-dessus.

ISSUED UNDER THE AUTHORITY OF MINISTER OF INDUSTRY  
DÉLIVRÉ AVEC L'AUTORISATION DU MINISTRE DES INDUSTRIES

**EWSXZ / EWSXZG (REVISION DC)  
EASYFIT ZIGBEE WALL SWITCHES**

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**5.4.2 Regulatory Statement****5.4.2.1 English version**

**WARNING:** Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment.

This device complies with Industry Canada license-exempt RSS standard(s). Operation is subject to the following two conditions:

1. This device may not cause interference, and
2. This device must accept any interference, including interference that may cause undesired operation of the device.

This equipment has been tested and found to comply with the limits for a Class B digital device, pursuant to ICES-003. These limits are designed to provide reasonable protection against harmful interference in a residential installation.

This equipment generates uses and can radiate radio frequency energy and, if not installed and used in accordance with the instructions, may cause harmful interference to radio communications. However, there is no guarantee that interference will not occur in a particular installation.

If this equipment does cause harmful interference to radio or television reception, which can be determined by turning the equipment off and on, the user is encouraged to try to correct the interference by one of the following measures:

- Reorient or relocate the receiving antenna.
- Increase the separation between the equipment and receiver.
- Connect the equipment into an outlet on a circuit different from that to which the receiver is connected.
- Consult the dealer or an experienced radio/TV technician for help.

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**5.4.2.2 French version**

**PRUDENCE:** Changements ou modifications pourraient annuler le droit de l'utilisateur à utiliser l'équipement non autorisées.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes:

1. L'appareil ne doit pas produire de brouillage, et
2. L'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

Cet équipement a été testé et déclaré conforme aux limites d'un appareil numérique de classe B, conformément à la norme ICES-003. Ces limites sont conçues pour fournir une protection raisonnable contre les interférences nuisibles dans une installation résidentielle.

Cet équipement génère, utilise et peut émettre une énergie de radiofréquence et, s'il n'est pas installé et utilisé conformément aux instructions, il peut causer des interférences nuisibles aux communications radio. Cependant, il n'existe aucune garantie que des interférences ne se produiront pas dans une installation particulière.

Si cet équipement provoque des interférences nuisibles à la réception radio ou télévision, ce qui peut être déterminé en mettant l'équipement hors et sous tension, l'utilisateur est encouragé à essayer de corriger l'interférence par une ou plusieurs des mesures suivantes:

- Réorienter ou déplacer l'antenne de réception.
- Augmentez la distance entre l'équipement et le récepteur.
- Connecter l'équipement à une sortie sur un circuit différent de celui sur lequel le récepteur est branché.
- Consulter le revendeur ou un technicien radio / télévision expérimenté pour de l'aide

EWSXZ / EWSXZG (REVISION DC)  
EASYFIT ZIGBEE WALL SWITCHES

**5.5 ARIB (Japan) Construction Type Conformity Certification**

**5.5.1 EWSSZ and EWSDZ Certificate**



CETECOM GmbH  
RCB Identifier 215



Bundesnetzagentur

authorized by the German Federal  
Regulatory body BNetzA to act as a  
CAB (Conformity Assessment Body) in  
accordance with the MRA EU-Japan

BNetzA -CAB -18/25 -54

**CONSTRUCTION TYPE CERTIFICATE**

<b>Certificate Holder</b>	<b>Matthias Kassner</b> Kolpingring 18a 82041, Oberhaching Deutschland
<b>CETECOM Registration No.</b>	21-1-0155301T03
<b>Model Name</b>	PTM 215Z FOH, PTM 215ZE
<b>Product Description</b>	Wireless switch
<b>Name of Manufacturer</b>	<b>Katek GmbH</b> Körtingstraße 1 83224, Grassau Germany

*This is to certify that the above-mentioned certification by type has been granted in accordance with the provisions of Article 38-24, Paragraph 1 of the Japan Radio Law.*

This device must be  
labelled appropriately  
physically or electronically



215-JUK011

Place, date of issue  
Essen, 2022-03-10

**CETECOM GmbH**

Tero Lehtinen / RCB

CETECOM GmbH, Im Tiefbruch 116,  
45219 Essen - tch@cetecom.com - www.cetecom.com

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EASYFIT ZIGBEE WALL SWITCHES

**5.5.2 EWSSZG and EWSDZG Certificate**



CETECOM GmbH  
RCB Identifier 215



authorized by the German Federal  
Regulatory body (BNetzA to act as a  
CAB (Conformity Assessment Body) in  
accordance with the MRA EU-Japan

BNetzA - CAB -18/25 -54

**CONSTRUCTION TYPE CERTIFICATE**

<b>Certificate Holder</b>	<b>Matthias Kassner</b> Kolpingring 18a 82041, Oberhaching Deutschland
<b>CETECOM Registration No.</b>	21-1-0155301T03
<b>Model Name</b>	PTM 216Z
<b>Product Description</b>	Wireless switch
<b>Name of Manufacturer</b>	<b>Katek GmbH</b> Körtingstraße 1 83224, Grassau Germany

*This is to certify that the above-mentioned certification by type has been granted in accordance with the provisions of Article 38-24, Paragraph 1 of the Japan Radio Law.*

This device must be  
labelled appropriately  
physically or electronically



215-JUK009

Place, date of issue  
Essen, 2022-03-10

**CETECOM GmbH**

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