
USER MANUAL FOR PULSE

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1 APPROVALS AND VERSION HISTORY

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2 GENERAL

2.1 Device description

PULSE is a radio device used for transmitting elevator or escalator condition monitoring data through radio link to database. Pulse incorporates a Wirepas (BLE) radio transmitter operating at frequency range 2400 – 2483.5 MHz

2.2 Safety information

No electrical safety information and warnings are needed as the electrical operating voltage of the radio equipment is lower than safety voltage.

To comply with human exposure requirements the equipment must be installed and operated with a minimum distance of 200 mm of the human body.

2.3 Power and environmental ratings of the device

PULSE has three powering options:

- 9 - 32 VDC input from YABB330.
- 5 VDC from USB connection to Kone Connection 220
- 2 x 1.5VDC AA internal alkaline or lithium batteries

NOTE. Batteries may never be connected to PULSE when any other power source is used to supply power.

PULSE environmental ratings and transmitter output power:

- IP protection class: IP55
- Transmitter maximum conducted output power: 10mW

3 INSTALLATION AND USE

PULSE will be installed and used in restricted access area (elevator shaft) only by KONE maintenance users according to KONE installation manuals. The product is not intended to be used by ordinary persons.

- PULSE shall only be used with the provided cabling that is not longer than 3 meters.
- PULSE shall only be used with internal antenna.
- PULSE shall be supplied with PELV/SELV voltage from another Kone device.
- PULSE is not to be connected to DC mains power distribution systems, but only to a dedicated DC power source.
- PULSE shall be installed by instructed person only (Kone maintenance users).
- PULSE shall be installed in a restricted access area.
- PULSE shall only be used as part of elevator.

KONE installation instructions for PULSE:

- AS-13.25.019-AP2 KONE LIFTSense INSTALLATION AND MAINTENANCE

The PULSE device is automatically configured when connected to KONE Connection 120/220 with USB cable. PULSE enclosure doesn't have any external user interfaces or indicators.

4 FCC/IC REGULATORY NOTICE

Modification Statement

KONE Corporation has not approved any changes or modifications to this device by the user. Any changes or modifications could void the user's authority to operate the equipment.

KONE Corporation n'approuve aucune modification apportée à l'appareil par l'utilisateur, quelle qu'en soit la nature. Tout changement ou modification peuvent annuler le droit d'utilisation de l'appareil par l'utilisateur.

Interference Statement

This device complies with Part 15 of the FCC Rules and Industry Canada licence-exempt RSS standard(s).

FCC Rules

Operation is subject to 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.

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.

Radiation Exposure Statement

This device complies with FCC/IC radiation exposure limits set forth for an uncontrolled environment and meets the FCC radio frequency (RF) Exposure Guidelines in Supplement C to OET65 and RSS-102 of the IC radio frequency (RF) Exposure rules. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.

Le présent appareil est conforme à l'exposition aux radiations FCC / IC définies pour un environnement non contrôlé et répond aux directives d'exposition de la fréquence de la FCC radiofréquence (RF) dans le Supplément C à OET65 et RSS-102 de la fréquence radio (RF) IC règles d'exposition. L'émetteur ne doit pas être colocalisé ni fonctionner conjointement avec à autre antenne ou autre émetteur.

FCC Class B Digital Device Notice

NOTE: 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 or more 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.

CAN ICES-3 (B) / NMB-3 (B)

This Class B digital apparatus complies with Canadian ICES-003. Cet appareil numérique de classe B est conforme à la norme canadienne ICES-003.

RF exposure safety

To comply with the measured SAR value/SAR testing exclusion, the equipment must be installed and operated with a minimum distance of 200 mm of the human body.

Sécurité d'exposition aux RF

Pour se conformer à la valeur SAR mesurée/exclusion des tests SAR, l'équipement doit être installé et utilisé à une distance minimale de 200 mm du corps humain.

5 2014/53/EU DIRECTIVE REGULATORY NOTICE

This device is in conformity with the essential requirements of the 2014/53/EU Directive.

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| Bulgarian | С настоящето KONE Corporation декларира, че PULSE отговаря на съществените изисквания и другите приложими изисквания на Директива 2014/53/EU. |
| Croatian | Ovime KONE Corporation, izjavljuje da je ovaj PULSE je u skladu s osnovnim zahtjevima i drugim relevantnim odredbama Direktive 2014/53/EU . |
| Czech | KONE Corporation tímto prohlašuje, že tento PULSE je ve shodě se základními požadavky a dalšími příslušnými ustanoveními směrnice 2014/53/EU. |
| Danish | Undertegnede KONE Corporation erklærer herved, at følgende udstyr PULSE overholder de væsentlige krav og øvrige relevante krav i direktiv 2014/53/EU. |
| Dutch | Hierbij verklaart KONE Corporation dat het toestel PULSE in overeenstemming is met de essentiële eisen en de andere relevante bepalingen van richtlijn 2014/53/EU. |
| English | Hereby, KONE Corporation declares that the radio equipment type PULSE is in compliance with Directive 2014/53/EU. |
| Estonian | Käesolevaga kinnitab KONE Corporation seadme PULSE vastavust direktiivi 2014/53/EU põhinõuetele ja nimetatud direktiivist tulenevatele teistele asjakohastele sätetele. |
| German | Hiermit erklärt KONE Corporation, dass sich das Gerät PULSE in Übereinstimmung mit den grundlegenden Anforderungen und den übrigen einschlägigen Bestimmungen der Richtlinie 2014/53/EU befindet. |
| Greek | ΜΕ ΤΗΝ ΠΑΡΟΥΣΑ KONE Corporation ΔΗΛΩΝΕΙ ΟΤΙ PULSE ΣΥΜΜΟΡΦΩΝΕΤΑΙ ΠΡΟΣ ΤΙΣ ΟΥΣΙΩΔΕΙΣ ΑΠΑΙΤΗΣΕΙΣ ΚΑΙ ΤΙΣ ΛΟΙΠΕΣ ΣΧΕΤΙΚΕΣ ΔΙΑΤΑΞΕΙΣ ΤΗΣ ΟΔΗΓΙΑΣ 2014/53/EU. |
| Hungarian | Alulírott, KONE Corporation nyilatkozom, hogy a PULSE megfelel a vonatkozó alapvető követelményeknek és az 2014/53/EU irányelv egyéb előírásainak. |
| Finnish | KONE Corporation vakuuttaa täten että PULSE tyyppinen laite on direktiivin 2014/53/EU oleellisten vaatimusten ja sitä koskevien direktiivin muiden ehtojen mukainen. |
| French | Par la présente KONE Corporation déclare que l'appareil PULSE est conforme aux exigences essentielles et aux autres dispositions pertinentes de la directive 2014/53/EU . |
| Icelandic | Hér með lýsir KONE Corporation yfir því að PULSE er í samræmi við grunnkröfur og aðrar kröfur, sem gerðar eru í tilskipun 2014/53/EU . |
| Italian | Con la presente KONE Corporation dichiara che questo |

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| | PULSE è conforme ai requisiti essenziali ed alle altre disposizioni pertinenti stabilite dalla direttiva 2014/53/EU . |
| Latvian | Ar šo KONE Corporation deklarē, ka PULSE atbilst Direktīvas 2014/53/EU būtiskajām prasībām un citiem ar to saistītajiem noteikumiem. |
| Lithuanian | Šiuo KONE Corporation deklaruoja, kad šis PULSE atitinka esminius reikalavimus ir kitas 2014/53/EU Direktyvos nuostatas. |
| Maltese | Hawnhekk, KONE Corporation, jiddikjara li dan PULSE jikkonforma mal-htigijiet essenzjali u ma provvedimenti oħrajn relevanti li hemm fid-Direttiva 2014/53/EU . |
| Norwegian | KONE Corporation erklærer herved at utstyret PULSE er i samsvar med de grunnleggende krav og øvrige relevante krav i direktiv 2014/53/EU. |
| Polish | Niniejszym KONE Corporation oświadcza, że PULSE jest zgodny z zasadniczymi wymogami oraz pozostałymi stosownymi postanowieniami Dyrektywy 2014/53/EU . |
| Portuguese | KONE Corporation declara que este PULSE está conforme com os requisitos essenciais e outras disposições da Directiva 2014/53/EU . |
| Slovak | KONE Corporation týmto vyhlasuje, že PULSE splňa základné požiadavky a všetky príslušné ustanovenia Smernice 2014/53/EU. |
| Slovenian | KONE Corporation izjavlja, da je ta PULSE v skladu z bistvenimi zahtevami in ostalimi relevantnimi določili direktive 2014/53/EU. |
| Spanish | Por medio de la presente KONE Corporation declara que el PULSE cumple con los requisitos esenciales y cualesquiera otras disposiciones aplicables o exigibles de la Directiva 2014/53/EU . |
| Swedish | Härmed intygar KONE Corporation att denna PULSE står i överensstämmelse med de väsentliga egenskapskrav och övriga relevanta bestämmelser som framgår av direktiv 2014/53/EU. |

The full text of the EU declaration of conformity is available at the following internet address:

<http://support.kone.com>

In order to satisfy the essential requirements of 2014/53/EU Directive, the product is compliant with the following standards:

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| RF spectrum use (RED art. 3.2) | EN 300 328 V2.2.2 |
| EMC (RED art. 3.1b) | EN 301 489-1 V2.2.3 Draft EN 301 489-17 V3.2.2 EN 12015:2014 EN 12016:2013 |
| Health & Safety (RED art. 3.1a) | EN 62368-1:2014 + AC:2015 + A11:2017 EN 62311:2008 |
| RoHS (2011/65/EU) | Directive 2011/65/EU |

There is no restrictions on putting into service or of requirements for authorisation of use within a Member State of the European Union