

CERTIFICATE RED-1150

Our ref. HEL-CERT180100001-01

EU TYPE EXAMINATION CERTIFICATE RADIO EQUIPMENT DIRECTIVE 2014/53/EU

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| Product | Personal alarm device |
| Type | TUP93EU |
| Trade mark | TWIG |
| Marketing Name | TWIG SOSCard |
| Certificate Holder | Twig Com Oy Lairolantie 14, FI-24910, Salo, Finland |
| Manufacturer | Same as applicant |
| Compliance with the requirements on the basis of type examination | Product fulfils the requirements of the standard(s) listed in Appendix 1 and the essential requirements set out in Article 3.1a (health & safety), Article 3.1b (EMC) and Article 3.2 (radio spectrum use) of Radio Equipment directive 2014/53/EU |
| Validity | This certificate is valid until 2023-03-23 unless the standard in question has been amended or superseded. |
| Date of issue | 2018-03-23 |

SGS Fimko Ltd

Signature



Jari Merikari
Technical Manager

SGS Fimko Ltd is a Notified Body (0598) according to the RE Directive 2014/53/EU.
Authentication of this Certificate can be confirmed at: sgs.fimko@sgs.com



This certificate has 1 appendix



This certificate is issued by the company under its General Conditions for Certification Services accessible at <http://www.sgs.fi/en/Terms-and-Conditions.aspx>. Attention is drawn to the limitations of liability defined therein and in the Test Report here above mentioned which findings are reflected in this certificate. Any unauthorized alteration, forgery or falsification of the content or appearance of this document is unlawful and offenders may be prosecuted to the fullest extent of the law.

Manufacturing sites

Twig Com Oy
Lairolantie 14, FI-24910, Salo, Finland

Applied standards

Article 3.1a (health & safety)
EN 50566:2013
EN 50360:2001 + A1:2012
EN 62209-2:2010
EN 60950-1:2006 + A11:2009 + A1:2010 + A12:2011 + A2:2013

Article 3.1b (EMC)
EN 301 489-1 V2.2.1, EN 301 489-3 V2.1.1, EN 301 489-17 V3.1.1
EN 301 489-19 V2.1.0, EN 301 489-52 V1.1.0

Article 3.2 (radio spectrum use)
EN 300 220-1 V3.1.1, EN 300 220-2 v3.1.1, EN 300 220-3-2 V1.1.1,
EN 300 328 V2.1.1
EN 301 511 V12.5.1
EN 301 908-1 V11.1.1, EN 301 908-2 V11.1.1
EN 303 413 V1.1.1

Test reports

| Testing laboratory | Report number | Date |
|--------------------|---|------------------|
| SGS Fimko Ltd. | 290439-1-1 | 28 February 2018 |
| SGS Fimko Ltd. | 290439-1-2 | 28 February 2018 |
| SGS Fimko Ltd. | 290439-1-3 | 28 February 2018 |
| SGS Fimko Ltd. | 290439-1-4 | 28 February 2018 |
| SGS Fimko Ltd. | 290439-1-5 | 28 February 2018 |
| SGS Fimko Ltd. | 290439-1-6 | 28 February 2018 |
| Verkotan Oy | CE SAR Report_TUP93EU_ ID2457_23012018.docx | 23 January 2018 |

Technical information

Operating voltage:
Battery: 3.7 VDC; Charger 5.0 VDC

Frequency band:
SRD: 868.229 MHz
SRD: 869.675 MHz
Bluetooth LE: 2402 – 2480 MHz
WLAN b/g/n: 2412 – 2480 MHz
GSM/GPRS: 900 and 1800 MHz
WCDMA: Band I, VIII
GNSS receiver: Band L1; 1559 – 1607 MHz

Transmit power:
SRD: 5.76 dBm ERP
SRD: -2.39 dBm ERP
Bluetooth LE: 6.0 dBm EIRP
WLAN b/g/n: 20 dBm EIRP max.
GSM/GPRS: 33 dBm max.
WCDMA: 24 dBm max.

Antenna type and gain:
PIFA; 0 dBi

Appendix to
Certificate:

RED-1150

Additional information

This type examination certificate is based on the inspection of the technical file ref. no. TUP93EU files.

This certificate is valid only for the types mentioned in this certificate.

The manufacturer must inform SGS Fimko if any technical or electrical changes made to the product covered by this certificate, as unauthorised modifications would invalidate this certificate.