

1. **EU-TYPE EXAMINATION CERTIFICATE**
2. **Equipment or Protective System Intended for use in Potentially explosive atmospheres
Directive 2014/34/EU**
3. EU-Type Examination Certificate Number: **EESF 20 ATEX 045X Issue 2**
4. Product: **GPS/GSM Personal Protection and Surveillance Device**
Certified types: **TWIG One Ex TLP50EU, TWIG One Ex TLP51EU and TWIG One Ex TLP53EU**
5. Manufacturer: **Twig Com Ltd**
6. Address: **Lairolantie 14, FI-24910 Salo, Finland**
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Expert Services Oy, Notified Body number 0537, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this product has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of products intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in confidential report No. EUFI29-21000256-T1.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN IEC 60079-0:2018 EN 60079-11:2012
10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to the Specific Conditions of Use specified in the schedule to this certificate.
11. This EU-Type Examination Certificate relates only to the design and construction of the specified product. Further requirements of the Directive apply to the manufacturing process and supply of this product. These are not covered by this certificate.
12. The marking of the product shall include the following:



II 2G Ex ib IIC T4 Gb
II 2D Ex ib IIIC T130°C Db
Ta: -20 °C...+60 °C

Espoo, 19.01.2021
Eurofins Expert Services Oy

Jenni Hirvelä
Senior Expert

Kari Koskela
Senior Expert

This document is digitally signed.

13. **Schedule**

14. **EU-Type Examination Certificate EESF 20 ATEX 045X Issue 2**

15. **Description of Product**

TWIG One Ex TLP50EU, TWIG One Ex TLP51EU and TWIG One Ex TLP53EU devices are Lithium-Ion-polymer battery operated Cellular Lone Worker Safety devices with GNSS and hybrid radio network positioning. They use MPTP telematics protocol for tracking the device and reporting alarms etc. Telematics message can be automatic man down signal, location update or manual by pressing the panic button. Device position is retrieved from inbuilt GNSS module or various radio networks with server application. Emergency calls use Cellular networks. The device is meant to be used mainly for safety communication and tracking purposes in case of accident in potentially explosive areas. The battery pack inside the equipment is not user replaceable. The battery pack has a special safety circuit. Safety circuit is used to limit the current or to provide fast cut-off of supply voltage in case of electronics or segregation failure. The enclosure is static dissipative plastic. Maximum radio frequency power is limited to 2 W (33 dBm).

TWIG One Ex type TLP50EU is 2G, 3G and 2G, 3G & 4G device, TWIG One Ex type TLP51EU is for PLS8 based device and TWIG One Ex type TLP53EU is for PLS63 based device.

Allowed Accessories:

- TWIG USB cable, type FME92EU
- TWIG battery charger, type CME92EU
- TWIG Leather pouch case, types YN3310EX, YN3500EX and YN5000EX
- TWIG Belt clip MC3750/AFB
- TWIG Ex car charger, type CCE92EU

16. **Report Number**

EUF129-21000256-T1

17. **Specific Conditions of Use**

The device shall be used according to the manufacturer's instructions.

1. Connection to the charger input of the phone or docking stations is only allowed with TWIG USB cable or TWIG battery or car charger.
2. The device shall not be recharged or programmed inside hazardous area.
3. SIM card shall not be changed inside hazardous area.

18. **Essential Health and Safety Requirements**

The Essential Health and Safety Requirements are covered by the standards listed at item 9.

19. **Drawings and Documents**

Drawings and documents are listed in the confidential report.

20. **Certificate History**

Issue	Date	Report No.	Change
-	26.06.2020	EUF129-19004898-T1	Original release
1	4.12.2020	EUF129-20005483-T1	Several changes in design. New PCB revisions. Schematics and parts lists updated. New potting method introduced. Type TWIG One Ex TLP53EU added.
2	19.01.2021	EUF129-21000256-T1	Several minor changes in design. New PCB revisions. Schematics and parts lists updated