IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx VTT 16.0009X	Issue No: 0	Certificate history: Issue No. 0 (2016-12-29)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2016-12-29**		
Applicant:	**Twig Com Oy** Lairolantie 14, FI-24910 Salo **Finland**		
Equipment:	**Twig Protector Ex TUP92EU, Twig Protector Pro Ex TUP92EU**		
Optional accessory:	*Twig Com USB cable (type FME92EU) and Twig Com Leather pouch case (types YN3310EX and YN3500EX)*		
Type of Protection:	**Intrinsically safe**		
Marking:	Ex ib IIC T4 Gb Ex ib IIIC T130 °C Db		

Approved for issue on behalf of the IECEx Certification Body: Jenni Hirvelä

Position: Expert

Signature: (for printed version)

Date: 2016-12-29

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

VTT Expert Services Ltd.
Kivimiehentie 4, Espoo
P.O.Box 1001
FI-02044 VTT
Finland

VTT EXPERT SERVICES LTD

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Manufacturer:	**Twig Com Oy** Lairolantie 14, FI-24910 Salo **Finland**	

Additional Manufacturing location(s):

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FI/VTT/ExTR16.0009/00

Quality Assessment Report:

FI/VTT/QAR16.0002/00

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

TWIG Protector TUP92EU devices are Lithium-Ion-polymer battery operated GSM phones and GPS trackers. They use MPTP telematics protocol for tracking the device. Telematics message can be automatic man down signal, location update or manual by pressing the panic button. Device position is retrieved from inbuilt GPS module. Emergency calls use GSM network. 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).

CONDITIONS OF CERTIFICATION: YES as shown below:

The device shall be used according to the manufacturer's instructions.
Connection to the charger input is only allowed with Twig Com USB cable.
The device shall not be recharged or programmed inside hazardous area.
The device shall not be recharged or programmed at ambient temperatures below 0 °C.
SIM card shall not be changed inside hazardous area.
SIM card insertion hole shall always be closed inside hazardous area.