# Intertek Intertek Intertek Intertek Intertek

# **EU-Type Examination Certificate**





# 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: ITS16ATEX28437 Issue 1

4. **Product:** Voice amplification facemask (FPS-COM 5000)

5. Manufacturer: Savox Communications OY AB

**6.** Address: Sinikalliontie 3,

FI-02630 ESPOO,

Finland

- 7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
- 8. Intertek Testing and Certification Limited, Notified Body number 0359 in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council dated 26 February 2014, certifies that the 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.

In accordance with Article 41 of Directive 2014/34/EU, EC-Type Examination Certificate referring to 94/9/EC that were in existence prior to the date of application of 2014/34/EU (20 April 2016) may be referenced as if they were issued in accordance with Directive 2014/34/EU. Supplementary Certificates to such EC-Type Examination Certificates, and new issues of such certificates, may continue to bear the original certificate number issued prior to 20 April 2016.

The examination and test results are recorded in confidential Intertek Reports Ref G102195211 dated February 2016 and G103339616 dated April 2018.

- 9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with EN 60079-0:2012+A11:2013 and EN 60079-11:2012 except in respect of those requirements referred to at item 16 of the Schedule.
- 10. If the sign "X" is placed after the certificate number, it indicates that the product is subject to Specific Conditions of Safe 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 1 GD Ex ia IIC T4 Ga Ex ia IIIC T130°C Da I M1 Ex ia I Ma -30°C ≤ Ta ≤ +60°C

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V K Varma Certification Officer 02 May 2018

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This certificate may only be reproduced in its entirety and without any change, schedule included and is subject to Intertek Testing and Certification's Conditions for Granting Certification.

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### **SCHEDULE**

### **EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS16ATEX28437X Issue 1**

# 13. Description of Equipment or Protective System

The FPS-COM 5000 is a portable battery powered voice amplifier unit with the ability to attach an intrinsically safe radio.

Intrinsic safety is assured by limitation of voltage, current and power, limitation of capacitance and inductance and infallible segregation and use of specified batteries.

The enclosure provides a degree of protection greater than IP20. The battery compartment provides a degree of protection of IP6X.

The FPS-COM 5000 may be powered by either two Industrial by Duracell ID2400, VARTA high energy 4903 AAA or Powerline by Panasonic (AAA-LR03) alkaline-manganese cells.

Intrinsically Safe Radio connection parameters:

Ui = 10V

Ii = 3A,

Pi = 7.5W

Ci <200nF,

Li <1uH.

Approved radio cable accessories:

- R62740 Kenwood connector cable
- R62741 IWT connector cable
- R62743 slim GCAI connector cable
- R62743 QR5 connector cable
- R62749 GCAI connector cable
- R62744 Universal QR4 connector cable
- R62745 Waris connector cable
- R62746 Jedi connector cable
- R62747 Entel connector cable
- R62713 Ear-speaker

# 14. Report Number

Intertek Reports Ref G102195211 dated February 2016 and G103339616 dated April 2018.

# 15. Special Conditions of Certification

- (a). Specific Conditions of Safe Use
  - Equipment is susceptible to electrostatics discharge. Maximum capacitance between exposed metal parts is 4.5pF.
  - Equipment may be exposed to direct sunlight light in normal use. Always inspect and check that there is no damage or evidence of UV crazing or discolouration before use.

## (b). Conditions of Manufacture

None

# **EU-Type Examination Certificate**





# **SCHEDULE**

# **EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS16ATEX28437X Issue 1**

# 16. Essential Health and Safety Requirements (EHSRs)

The relevant Essential Health and Safety Requirements (EHSRs) affected by this variation have been identified and assessed in Intertek Report Ref: G103339616 dated April 2018.

# 17. Drawings and Documents

Title:	Drawing No.:	Rev. Level:	Date:
*FPS-COM 5000 ASM Ex critical details (3 Sheets)	DR20205	В	21.9.2017
*FPS-COM 5000 label spec (3 Sheets)	DR10455	D	09.05.2017
Battery PCB Ex	DR10337	С	14.01.2016
FPS-COM 5000 Battery PCBA Ex (2 Sheets)	DR10338	С	21.01.2016
PCB SPECIFICATION (2 Sheets) + LAYOUT (13 Sheets)	DR10337	С	14.01.2016
*FPS-COM 5000 Main PCB Ex (4 Sheets)	SDR10395	С	12.10.2016
*FPS-COM 5000 Main PCBA Ex (3 Sheets)	DR10396	С	12.10.2016
*PCB SPECIFICATION (2 Sheets) + LAYOUT (15 Sheets)	DR10395	С	12.10.2016
*FPS5 Radio PCB Ex	SDR10442	Α	10.02.2016
*FPS-COM 5000 Radio Entel PCBA Ex (4 Sheets)	DR10447	В	23.03.2016
*FPS-COM 5000 Radio Waris PCBA Ex (3 Sheets)	DR10443	В	23.03.2016
*FPS-COM 5000 Radio Jedi PCBA Ex (4 Sheets)	DR10446	В	23.03.2016
*FPS-COM 5000 Radio Universal PCBA Ex (3 Sheets)	DR10448	В	23.03.2016
*PCB SPECIFICATION (2 Sheets) + LAYOUT (17 Sheets)	DR10442	Α	11.2.2016
*Conformal coating instruction for FPS COM 5000 BATTERY PCBA Ex	DR10463	В	14.09.2017
*Conformal coating instruction for FPS COM 5000 Main PCBA Ex	DR10464	В	14.09.2017
*Conformal coating instruction for FPS COM 5000 radio PCBA Ex	DR10465	В	14.9.2017
FPS Ex Cable Label	DR20215	Α	16/02/2016
*FPS5 Radio MTP850FuG PCBA Ex	DR10450	В	12/12/2016
*FPS5 Radio MTP3000 PCBA Ex	DR10454	С	12/12/2016
*FPS5 Radio Kenwood PCBA Ex	DR10461	С	12/12/2016
*FPS5 Radio IWT PCBA Ex	DR10462	С	12/12/2016
*FPS-COM 5000 Control drawing	DR10457	В	13/11/2017

Note: An \* is included before the title of documents that are new or revised.



# **EU-Type Examination Certificate**





# **SCHEDULE**

# **EU-TYPE EXAMINATION CERTIFICATE NUMBER ITS16ATEX28437X Issue 1**

# 18. Details of Certificate Changes Issue 1

Intertek Project No. G103339616

This variation covers the following:

- Addition of 5 new radio cable adaptors.
- Removal of Energizer battery type.
- Correction to drawing versions used in manufacturing.

Title:	Drawing No.:	Rev. Level:	Date:
FPS-COM 5000 ASM Ex critical details (3 Sheets)	DR20205	В	21.9.2017
FPS-COM 5000 label spec (3 Sheets)	DR10455	D	09.05.2017
FPS-COM 5000 Main PCB Ex (4 Sheets)	SDR10395	С	12.10.2016
FPS-COM 5000 Main PCBA Ex (3 Sheets)	DR10396	С	12.10.2016
PCB SPECIFICATION (2 Sheets) + LAYOUT (15 Sheets)	DR10395	С	12.10.2016
FPS5 Radio PCB Ex	SDR10442	Α	10.02.2016
FPS-COM 5000 Radio Entel PCBA Ex (4 Sheets)	DR10447	В	23.03.2016
FPS-COM 5000 Radio Waris PCBA Ex (3 Sheets)	DR10443	В	23.03.2016
FPS-COM 5000 Radio Jedi PCBA Ex (4 Sheets)	DR10446	В	23.03.2016
FPS-COM 5000 Radio Universal PCBA Ex (3 Sheets)	DR10448	В	23.03.2016
PCB SPECIFICATION (2 Sheets) + LAYOUT (17 Sheets)	DR10442	Α	11.2.2016
Conformal coating instruction for FPS COM 5000 BATTERY PCBA Ex	DR10463	В	14.09.2017
Conformal coating instruction for FPS COM 5000 Main PCBA Ex	DR10464	В	14.09.2017
Conformal coating instruction for FPS COM 5000 radio PCBA Ex	DR10465	В	14.9.2017
FPS5 Radio MTP850FuG PCBA Ex	DR10450	В	12/12/2016
FPS5 Radio MTP3000 PCBA Ex	DR10454	С	12/12/2016
FPS5 Radio Kenwood PCBA Ex	DR10461	С	12/12/2016
FPS5 Radio IWT PCBA Ex	DR10462	С	12/12/2016
FPS-COM 5000 Control drawing	DR10457	В	13/11/2017

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