



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 ITS 16.0023X** issue No.: **0** Certificate history

Status: **Current**

Date of Issue: **2016-03-18** Page 1 of 3

Applicant: **Savox Communications OY AB**
Sinikalliontie 3, FI-02630 ESPOO,
Finland

Electrical Apparatus: **Voice amplification facemask**
Optional accessory:

Type of Protection: **Intrinsic safety 'ia'**

Marking: **Ex ia IIC T4 Ga**
Ex ia IIIC T130°C Da
Ex ia I Ma
-30°C ≤ Ta ≤ 60°C

Approved for issue on behalf of the IECEx **A T Austin**
Certification Body:

Position: **Certification Officer**

Signature:
(for printed version)

Date:

2016-03-18

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:
Intertek Testing & Certification Limited
ITS House, Cleeve Road,
Leatherhead,
Surrey, KT22 7SB
United Kingdom



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Manufacturer: **Savox Communications OY AB**
Laitaatsillantie 3
FI-57170 SAVONLINNA
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 Explosive atmospheres - Part 0: General requirements
Edition: 6.0
IEC 60079-11 : 2011 Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "T"
Edition: 6.0

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:
GB/ITS/ExTR16.0023/00

Quality Assessment Report:
FIVTT/QAR08.0001/05



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The FPS-COM 5000 is a portable battery powered voice amplifier unit with the ability to attach an intrinsically safe radio. The equipment consist of three printed circuit boards (PCBs):

Battery_Board PCB

Main PCB

Radio PCB

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 Energizer Ultra + (LR03), Industrial by Duracell ID2400, Powerline by Panasonic-LR03 or VARTA high energy 4903 AAA alkaline-manganese cells.

The FPS-COM 5000 maybe connected to an intrinsically safe radio compatible with the following input parameters:

$U_i = 10 \text{ V}$

$I_i = 3 \text{ A}$

$C_i = 220 \text{ nF}$

$P_i = 7.5 \text{ W}$

$L_i = 1 \mu\text{H}$

CONDITIONS OF CERTIFICATION: YES as shown below:

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.