

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 18 ATEX 008X Issue 1**
4. Product: **Com-Control Unit**
Certified types: **C-C440/MTP850Ex, C-C440/DP4000X, C-C440/Waris Ex, C-C440/Sailor Ex,
C-C440/PD79aEx, C-C440/E-Tech Ex, C-C440/TK2260 Ex and C-C440/S4 Ex**
5. Manufacturer: **Savox Communications Oy Ab**
6. Address: **Keilaranta 15 B, FI-02150 ESPOO, Finland**
Additional manufacturing locations:
 1. **SAVOX Communications Oy Ab, Schaumanintie 26, FI-57230 SAVONLINNA, Finland**
 2. **Savox Communications (Shenzen) Co. Ltd, 7th Floor, Building #2, Hong Hui Industrial Park, Liu Xian 2nd Road, 68th Subdistrict, Baoan, Shenzen, China**
7. This product and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.
8. Eurofins Electric & Electronics Finland 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. EUFI29-23003878-T1.
9. Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 60079-0 (2018) EN 60079-11 (2011)
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 T110°C Db

Espoo, 11.10.2023
Eurofins Electric & Electronics Finland Oy

Jenni Hirvelä
Senior Expert

Kari Koskela
Senior Expert

This document is digitally signed.



13. **Schedule**14. **EU-Type Examination Certificate EESF 18 ATEX 008X Issue 1**15. **Description of Product**

The SAVOX C-C440/MTP850Ex, C-C440/Sailor Ex, C-C440/DP4000X, C-C440/Waris Ex, C-C440/PD79aEx, C-C440/E-Tech Ex, C-C440/TK2260 and C-C440/S4 Ex Com-Control Units are to be used with intrinsically safe radio types according to unit type marking. Com-control unit type C-C440/PD79aEx is also compatible with certified PD71aEx, HD795Ex, PT790Ex and PT710Ex radios. The units consist of permanent cable, IP5X (according to EN 60079-0 and -11) enclosure with integrated PTT (Push-To-Talk) button and an electronics board. The plastic material of the enclosure is conductive.

Electrical data:

The maximum input values for types C-C440/MTP850Ex, C-C440/Sailor Ex, C-C440/Waris Ex, C-C440/PD79aEx and C-C440/TK2260 Ex are:

Ui = 9 V li = 3 A Pi = 6.75 W Ci = 0.1 µF Li = 10 µH

The maximum input values for type C-C440/DP4000X are:

Ui = 9 V li = 75 mA Pi = 314 mW Ci = 0.1 µF Li = 2 mH

The maximum input values for type C-C440/E-Tech Ex are:

Ui = 9 V li = 3 A Pi = 6.75 W Ci = 0.1 µF Li = 5 µH

The maximum input values for type C-C440/S4 Ex are:

Ui = 8.8 V li = 1.7 A Pi = 14.95 W Ci = 0.1 µF Li = 10 µH

Allowed plug-in accessories:

- a) Savox TC-1 Ex or POA61-Ex
- b) SAVOX MS-Com ATEX
- c) SAVOX HC-1... ATEX or POA34-Ex
- d) SAVOX HC-2... ATEX or POA100-Ex
- e) SAVOX HC-E... ATEX or POA101-Ex
- f) SAVOX L-H Ex or POA65-Ex
- g) Peltor Adapter Cable Ex
- h) FPS-COM-PLUS VA R-C* (ITS 11 ATEX 27318X)
- i) FPS-COM 5000* (ITS 16 ATEX 28437X)
- j) FPS-COM 7000* (ITS 16 ATEX 28340X)
- k) MSA F1XF Communication Headset** (Not for Group III)
- l) MT7H79F-50, MT7H79B-50, MT7H79P3E-50 (Not for Group III, Max Tamb +40 °C)
- m) Dräger ANP-Com* (Not for Group III, Max Tamb +40 °C, VTT 17 ATEX 064X)
- n) Savox NOISE-COM 400 Ex / Hytera IS Helmet N.C. headset (EESF 20 ATEX 087X)
*) S4 Ex excluded
**) For Waris Ex and Sailor Ex only

16. **Report Number:**

EUF129-23003878-T1

17. **Specific Conditions of Use**

1. Allowed ambient temperature range is Tamb -20 °C to +55 °C.
2. When used with allowed plug-in accessories inside hazardous areas, the limited conditions in Clause 15 shall be observed.
3. Connection of SAVOX C-C440 Com-Control Units shall be done according to radio manufacturer's instructions.

4. Impact test was made according to low risk of mechanical danger. The device shall be protected from high-level impacts.

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

Title:	Drawing No.:	Rev.	Date:
*EX SAFETY DECLARATION FOR PRODUCT C-C440 /DP4000EX /MTP850EX /WARIS EX /SAILOR EX / PD79aEx/E-Tech Ex/TK2260 Ex / S4 Ex	D23313	H	20.9.2023
C-C440_ICOM S4 Ex Safety Calculations	D24477	C	6.8.2018
*EU DoC and Safety Guide Savox C-C440 VTT13 ATEX 040X	D23328	K	9.10.2023
Ex label C-C440/MTP850 Ex, Waris Ex, Sailor Ex, PD79aEx	D23321	D	3.9.2018
Ex label C-C440/DP4000 Ex	D23327	C	3.9.2018
Ex Label C-C440/E-Tech Ex	D23794	C	3.9.2018
C-C440_S4 Ex Label Instruction	D24461	B	3.9.2018
440AV / Generic Ex Component list (Product K16160_A)	D16160	A	28.10.2013
440AV ICOM S4 EX Part list (PCBA BoM)	D18289	A	24.8.2018
PCBA 440AV Sailor Ex Component list (Product K16161_B)	D16161	B	25.8.2014
PCBA 440AV DP4000Ex Component list (Product K16231_A)	D16231	A	28.10.2013
PCBA 440AV Waris Ex Component list (Product K16237_A)	D16237	A	28.10.2013
Schematic diagram Savox 440AV K15915	S15915	C	2.12.2013
PCB and Component layout, K15915_C_440AV	-	-	-
PCB Specification K15915_C_440AV	-	-	2.12.2013
Epoxy casting description for ATEX component boards	D21487	E	19.11.2014
C-C440 Main ASM Emergency Ex K14906	D14906	E	24.10.2014
Connector cable SAVOX C-C440/Sailor Ex, p/n: K16233	D16233	B	17.5.2016
Conn cable 440/MTP850 Ex SAVOX C-C440, p/n: K14060	D22319	B	25.6.2015
Connector cable Motorola DP4000 Ex SAVOX C-C440, p/n: K16221	D23332	A	22.10.2013
Conn cable 440/Waris Ex SAVOX C-C440, p/n: K14060	D22320	B	25.6.2015
Conn Cable E-Tech Cable	D17026	A	20.8.2015
Conn.Cable TK2260 Ex Cable	D16549	B	28.6.2016
PD790EX cable	D16219	B	5.9.2016
ICOM_S4_Ex_Cable	D18212	B	7.6.2018

*The accessory documents are listed in the document "Headset documents in PTT Ex certificates". Doc.nr. D22115. Rev.Q.
Date: 6.10.2023.

SAVOX C-C440/MTP850Ex complies with the Documentation Manual for Motorola ATEX, UC connector interface mentioned in Motorola documents:

- Accessory Interface Definition, Document 6866546D07_02_06, Rev B, date 27-Jun-08
- Specification of External Loudspeaker used at Accessory Interface, Document 6866546D07_02_07, Rev B, date 27-Jun-08

*) New/ revised documents

20. Certificate History

Issue	Date	Report No.	Change
-	19.12.2013	VTT-S-08630-13	Prime certificate
VTT 13 ATEX 040X Issue 1	29.6.2015	-	Minor changes. Compatibility with Ex radios of certified type C-C440/PD79aEx clarified.
VTT 13 ATEX 040X Issue 2	6.11.2015	VTT-S-05197-15	Certified type C-C440/E-Tech Ex added. New or revised documents.
VTT 13 ATEX 040X Issue 3	25.4.2016	VTT-S-03879-16	Certified type C-C440/TK2260 Ex added. New or revised documents.
VTT 13 ATEX 040X Issue 4	1.7.2016	-	List of accessories updated. New accessories assessed.

VTT 13 ATEX 040X Issue 5	5.10.2016	VTT-S-03879-16	Extend of compatibility with Ex radios of certified type C-C440/PD79aEx. Alternative names entered, New revisions, New doc. replaces D12666D
VTT 13 ATEX 040X Issue 6	15.8.2017	VTT-S-04121-17	Addition of FPS-COM 7000 plug-in accessory.
VTT 13 ATEX 040X Issue 7	10.7.2018	VTT-S-02835-18	Certified type C-C440/S4 added. Addition of SAVOX NOISE-COM 200 Ex and Dräger ANP-Com accessories.
EESF 18 ATEX 008X	19.9.2018	S-04487-18	NB name changed from VTT Expert Services to Eurofins Expert Services. Addition of SAVOX NOISE-COM 400 Ex or Hytera IS Helmet N.C. headset plug-in accessory. Manufacturers address changed.
Issue 1	11.10.2023	EUFI29-23003878-T1	Accessories list updated. Obsolete products removed and MSA F1XF Communication Headset added.