



# 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](http://www.iecex.com)

Certificate No.: IECEx NEM 13.0012X

Issue No: 4

Certificate history:

Issue No. 4 (2018-03-07)

Issue No. 3 (2016-07-01)

Issue No. 2 (2014-07-11)

Issue No. 1 (2014-01-31)

Issue No. 0 (2013-07-05)

Status: **Current**

Page 1 of 5

Date of Issue: **2018-03-07**

Applicant: **Jatronic A/S**  
Borgeskogen 5  
3160 Stokke  
**Norway**

Equipment: **Key Switch**

*Optional accessory:*

Type of Protection: **Ex i**

Marking:

Ex ib IIC T4 Gb

Parameters:

AB12-13NXX-2, AB12-16NXX-2, AB12-16L, AB12-13NX, AB12-33L, AB12-34T:

$U_i = U_o: 9V, P_i = P_o: 1,3W, C_i: 433nF, L_i: 0$

Output voltage, current and power are equal to input voltage, current and power.

AB12-35T:

$U_i = U_o: 9V, P_i = P_o: 1,3W, C_i: 90nF, L_i: 0$

Output voltage, current and power are equal to input voltage, current and power.

AB12-DPEX:

$U_i = U_o: 9V, P_i = P_o: 1,3W, C_i: 98nF, L_i: 0$

Output voltage, current and power are equal to input voltage, current and power.

AB12-36T:

$U_o: 6,51V, I_o: 169mA, P_o: 274mW, C_o: 300nF, L_o: 1,2mH$

Approved for issue on behalf of the IECEx  
Certification Body:

Asle Kaastad

Position:

Certification Manager

Signature:  
(for printed version)

Date:

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](http://www.iecex.com).

Certificate issued by:



# IECEX Certificate of Conformity

Certificate No: IECEX NEM 13.0012X

Issue No: 4

Date of Issue: 2018-03-07

Page 2 of 5

**DNV GL Nemko Presafe AS**  
Gustadalleen 30  
P.O. Box 73 Blindern  
0314 Oslo  
Norway





# IECEX Certificate of Conformity

Certificate No: IECEX NEM 13.0012X

Issue No: 4

Date of Issue: 2018-03-07

Page 3 of 5

Manufacturer: **Jatronic A/S**  
Borgeskogen 5  
3160 Stokke  
Norway

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 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 "i"  
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:

NO/NEM/ExTR13.0010/00  
NO/NEM/ExTR13.0010/03

NO/NEM/ExTR13.0010/01  
NO/NEM/ExTR13.0010/04

NO/NEM/ExTR13.0010/02

### Quality Assessment Report:

NO/NEM/QAR13.0001/00  
NO/NEM/QAR13.0001/03

NO/NEM/QAR13.0001/01  
NO/NEM/QAR13.0001/04

NO/NEM/QAR13.0001/02



# IECEX Certificate of Conformity

Certificate No: IECEx NEM 13.0012X

Issue No: 4

Date of Issue: 2018-03-07

Page 4 of 5

## Schedule

### EQUIPMENT:

*Equipment and systems covered by this certificate are as follows:*

Key switch device for connection to certified intrinsically safe radio transceivers and certified intrinsically safe accessories for instance headset. The key switch device is incorporated in an enclosure.

All models are equipped with a microphone amplifier board.

AB12-36T: The key switch can only be used together with Sepura STP8X series TETRA Radio certified in IECEx BAS 12.0001X and in accordance to document SPR-DOC-04100 rev. 1, date 02/04/15. IECEx certified accessories for instance headset must comply with the output parameters from the keyswitch.

Type designation:

AB12-13NXX-2

AB12-16NXX-2

AB12-16L

AB12-13NX

AB12-33L

AB12-34T

AB12-35T

AB12-36T

AB12-DPEX

### SPECIFIC CONDITIONS OF USE: YES as shown below:

With reference to IEC 60079-0: 2011 clause 7.5 (accessible metal parts): The equipment has an unearthed retaining metal clip that has a higher measured capacitance than permitted in table 9. Measured capacitance is 30pF. The permitted value is 3pF.

AB12-DPEX: The Audio Adapter with Molex jack type PMLN6047A (IECEX BVS 12.0049X) can be connected or changed only outside the potentially hazardous area.



# IECEX Certificate of Conformity

Certificate No: IECEX NEM 13.0012X

Issue No: 4

Date of Issue: 2018-03-07

Page 5 of 5

**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):**

Issue 4: Minor changes in BOM for AB12-36T and a new cable for AB12-DPEX. An alternative enclosure is added for the AB12 range.