

[1] EC-TYPE EXAMINATION CERTIFICATE

**[2] Equipment or Protected System Intended for use
in Potentially explosive atmospheres
Directive 94/9/EC**

- [3] EC-Type Examination Certificate Number:** Nemko 05ATEX1235X
- [4] Equipment or Protective System:** Key-switch (push button)
- [5] Applicant:** A-Kabel AS
- [6] Address:** Postboks 64
2151 Årnes
Norge
- [5] Manufacturer:** A-Kabel AS
- [6] Address:** Postboks 64
2151 Årnes
- [7] This equipment or protective system and any acceptable variation thereto is specified in the schedule to this certificate and the documents therein referred to.**
- [8] Nemko AS, notified body number 0470 in accordance with Article 9 of Council Directive 94/9/EC of 23 March 1994, certifies that this equipment or protective system has been found to comply with the Essential Health and Safety requirements relating to the design and construction of equipment and protective systems 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. 43529
- [9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:**
CENELEC EN 50014: 1997 + A1: 1999 + A2: 1999 and CENELEC EN 50020:2002
- [10] If the sign "X" is placed after the certificate number, it indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.**
- [11] This EC-TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.**
- [12] The marking of the equipment or protective system shall include the following :**



II 2 G

EEx ib IIC T4

Oslo, 2005-09-21



Rolf Hoel
Certification Department

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[13] Schedule**[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 05ATEX1235X****[15] Description of Equipment or Protective System**

Key-switch to be connected between a headset and a radio

Type Designation

AK 6612

Technical Data

Ui: 9VDC, Pi: 1.3W, Ii: 460mA, Ci: 1.11uF, Li: negligible

[16] Report No. 10066**Descriptive Documents**

Number	Rev.	Date	Title/Description	Sheets
AK-6612	A	2005-05-26	Spiral kabel for Mot GP340	1
AK-6612	A	2005-05-26	Spiral kabel for Mot GP340	1
S045A	A	2005-05-26	Kretskort til AK6612	1
S046A	A	2005-05-26	Kretskort til AK6612	1
B045A	--	2005-05-26	Top Overlay	1
B045A	--	2005-05-26	Top Layer	1
B045A	--	2005-05-26	Bottom Layer	1
B045A	--	2005-05-26	Bottom Overlay	1
B046A	--	2005-05-26	Top Overlay	1
B046A	--	2005-05-26	Top Layer	1
B046A	--	2005-05-26	Bottom Layer	1
B045A	A	2005-05-26	Bill of materials	1
B046A	A	2005-05-26	Bill of materials	1
--	--	2005-08-04	Tegningsunderlag for AK6612	1

[17] Special Conditions for Safe Use

The AK 6612 can only be used together with ATEX certified radios and headsets with the same, or better safety data.

[18] Essential Health and Safety Requirements

See item 9

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Enterprise number:
NO 974404532

SUPPLEMENT 1 TO EC-TYPE EXAMINATION CERTIFICATE**[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 05ATEX1235X****[15] Description of Equipment or Protective System**

This Certificate is extended to include new model with waterproof enclosure.

Type Designation

AK 6612W

[16] Report No. 90896**Descriptive Documents**

Number	Rev.	Date	Title/Description	Sheets
AK 6612W ASSY	2	04.09.2007	CERTIFICATE NR. 05 ATEX 1235X	2
Marking AK6612W	2	26.11.2007	CERTIFICATE NR. 05 ATEX 1235X	1
User info. AK6612W	2	26.11.2007	Certificate no. 05ATEX1235X	1

Routine Test

Non

[17] Special Conditions for Safe Use

See schedule of limitations in main certificate

[18] Essential Health and Safety Requirements

See item 9

Oslo, 2007-12-03

**Rolf Hoel****Certification Manager, Ex-products***This certificate may only be reproduced in its entirety and without any change, schedule included.*

SUPPLEMENT 2 TO EC-TYPE EXAMINATION CERTIFICATE

[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 05ATEX1235X

[15] Description of Equipment or Protective System

This Certificate is extended to include changes of the electronics and new standards as listed. The changes of the electronics do not alter the safety characteristics of the product.

Type Designation

AK 6612

Safety Parameters for the Key Switch

Ui: 8,4V, Ii: 1,5A, Ci: 52nF, Li=Negligible

The input parameters of the key switch, with a connected head set, shall match the certified output parameters of the connected radio transceiver.

Uo: 8,4V Io: 270mA, Po: 0,57W Co: 6,2µF, Lo: 0,46mH

The output parameters of the key switch shall match the certified input parameters of the connected head-set.

[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

CENELEC EN 60079-0:2006
CENELEC EN 60079-11:2007

[16] Report No. 135362

Descriptive Documents

Number	Rev.	Date	Title/Description	Sheets
AK- 6612	B	08.09.09	Spiral kabel for Mot GP340	1
AK- 6612s	B	08.09.09	Spiral kabel for Mot GP340	1
B046B Bill of materials	B	18.02.09	46B Bill of materials	1
B046B	B	18.02.09	Bottom layer, Pcb connector GP340 MTP850EX	1/3
B046B	B	18.02.09	Top layer, Pcb connector GP340 MTP850EX	2/3
B046B	B	18.02.09	Top Overlay, Pcb connector GP340 MTP850EX	3/3
AK6612	C	22.09.09	Marking	1
B070A Bill of materials	A	09.08.09	70A bill of materials	1
B070A	A	08.09.09	Bottom layer, Barriere & headset interface	3/3
B070A	A	08.09.09	Top layer, Barriere & headset interface	2/3
B070A	A	08.09.09	Top Overlay, Barriere & headset interface	1/3

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S046B	B	18.02.09	Pcb connector GP340 MTP850EX	1
S070A	A	08.09.09	Barriere & headset interface	1

Routine Test

None

- [17] **Special Conditions for Safe Use**
See schedule of limitations in main certificate
- [18] **Essential Health and Safety Requirements**
See item 9

Oslo, 2011-10-05

Revised Issue dated 2011-10-05 replaces previous dated 2009-10-29 due to editorial correction.

Asle Kaastad

Asle Kaastad

Certification Manager, Ex-products

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