

[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 11ATEX1234X** Issue 4

[4] Equipment or Protective System: **Headset series, LiteCom Pro II**

[5] Applicant/ Manufacturer: **3M Svenska AB**

[6] Address: **Box 2341
SE-331 02 Värnamo
SWEDEN**

[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. **D0001023 Rev 1**




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

CENELEC EN 60079-0:2012, CENELEC EN 60079-11:2012, CENECEL EN 50303:2000

[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:

	I M1	Ex ia I Ma
	II 1G	Ex ia IIC T4 Ga
	II 1D	Ex ia IIIC T130°C Da

-20°C ≤ Ta ≤ +50°C

Oslo, 2014-01-08

Bjørn Spongsveen
Certification Manager, Ex-products

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[13] Schedule

[14] EC-TYPE EXAMINATION CERTIFICATE No **Nemko 11ATEX1234X** Issue 3

[15] Description of Equipment or Protective System

The headset consists of headphones, microphones and an integrated intercom radio. It is powered by a Li-Ion battery, integrated in the battery-pack: 3M, Peltor, ACK08. It must be charged in non-hazardous area with belonging charging cable, AL2AH connected to a SELV 5V assessed equipment, for example 3M, Peltor, Power supply FR08. The HTRL-06 Speaker and the following microphones, MT192-1, MT53N-12 and MT7N-02 have been evaluated as integrated part of the apparatus. In addition, an external mechanical switch, PTT-Key, 3M, Peltor FL5602-50 has been evaluated as a part of the headset, connected to the External jack.

This certificate covers three models: one with headband, one with neckband and one with helmet attachment.

Type Designations

MT7H7B4010-EU-50 Lite-Com Pro II B-Band (Neckband)

MT7H7F4010-EU-50 Lite-Com Pro II F-Band (Headband)

MT7H7P3E4010-EU-50 Lite-Com Pro II P3E (Helmet att.)

FL5602-50 PTT Adapter

Ingress protection: IP20 for the headset and IP65 for the adapter, according to IEC 60529 Edition 2.1.

[16] Report No. **D0001023 Rev 1**

Descriptive Documents

Name/Title	Drawing No.	Rev.	Date	Sheets
Assembly Drawing MT7H7B4010-EU-50	P110323	F	2013-12-13	1
Assembly Drawing MT7H7F4010-EU-50	P110325	F	2013-12-13	1
Assembly Drawing MT7H7P3E4010-EU-50	P110327	F	2013-12-13	1
Assembly Drawing OMK037-03	P060283	B	2010-04-13	1
Assembly Drawing HTRL-06 Speaker	P110467	A	2012-03-29	1
Technical Specification M01N-02	P110285	A	2012-03-29	1
Assembly Drawing F20 Headband Cover Material	P090063	B	2012-10-02	1
Assembly Drawing ACK08	P100753	C	2013-06-17	1
Schematic Drawing K315AVA (ACK08)	K315A_Schematic	A	2012-03-29	2
Electrical Drawing File K315AVA (ACK08)	K315A_PCB_EDF	A	2012-03-29	7
Bill Of Material K315AVA (ACK08)	K315A_BOM	A	2012-03-29	-
Information File K315AVA (ACK08)	K315A_Info_File	A	2012-03-29	1
K313A Schematic Drawing	K313A_Schematic	C	2013-06-10	2
K313A Bill Of Material	K313A_BOM	C	2013-06-10	-
K313A Information File	K313A_Info_File.doc	D	2013-06-10	8
K313A PCB Electrical Drawing File	K313A_PCB_EDF	C	2013-06-10	5
K314BVA Schematic Drawing	K314_Schematic	B	2013-12-05	6
K314BVA Bill Of Material	K314B_BOM	B	2013-12-06	-
K314BVA PCB Electrical Drawing File	K314_PCB_EDF	A	2013-06-10	5

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K314BVA Information File	K314B_Info_File	B	2013-12-05	10
K236A Schematic Drawing	K236_Schematic_a.doc	A	2007-04-12	2
K236A Bill Of Material	K236A_BOM.doc	A	2007-04-12	2
K236A PCB Electrical Drawing File	K236A_PCB_EDF.doc	A	2007-04-12	5
K236A Information File	K236A_Info_File.doc	A	2007-04-12	3
Detail Drawing FP8322 (ACK08) Label	P110280	B	2012-05-29	1
Label Layout MT7H7*4010-EU-50	P120001	F	2013-12-09	1
Label Layout TT0048, FP8122 Label print Use Only ACK08	P120145	A	2013-06-20	1
Wiring Instruction MT7H7*4010-* WI for Lite-Com Pro II	P120012	A	2012-03-29	1
Assembly Drawing F20-LBG-01 Headband cable assembly	P100798	B	2012-09-07	1
User Manual	FP3740	B	2014-01-15	3 aside from the ATEX certificate
Label layout, TA0008, FP8120 Label for FL5602-50	P100284	C	2013-10-31	1
K272VA PCB Electrical Drawing File for FL5602-**	K272_PCB_EDF.doc	A	2007-10-22	4
K272VA Schematic drawing	K272_SCHEMATIC.doc	A	2007-10-22	1
K272AVA Bill Of Material	K272A_BOM.doc	A	2007-10-22	1
K272A Information File	K272A_INFO_FILE.doc		2007-10-22	1
Wiring Instruction FL5602-50 Adapter cable	P070007	B	2008-05-06	1
Assembly Drawing FL5602-50 Adapter	P130299	A	2013-10-31	1

Certificate History and Associated Nemko Reports

Issue	Date	Report	Description
0	2012-04-13	168517	Prime Certificate released
1	2012-07-13	210835	Optimization updates of the design and editorial, non-Ex related changes of marking label and user manual.
2	2013-06-18	237443	Design optimization, however no components on which the intrinsic safety depends were changed. The certificate was updated to the latest standards.
3	2013-11-14	D0001023 Rev 0	Included the PTT adapter FL5602-50 as a part of the headset, connected on the External Jack. The adapter was previously certified Nemko 09ATEX1118.
4	2014-01-07	D0001023 Rev 1	Design optimization of K314, revised to K314B, CE No 0313 changed to 1313 on the marking label.

[17] Special Conditions for Safe Use

The battery pack 3M, Peltor, ACK08 must be charged in non-hazardous area with belonging charging cable, AL2AH connected to a SELV 5V assessed equipment, for example 3M, Peltor, Power supply FR08.

[18] Essential Health and Safety Requirements

See item 9

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