



# [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 03ATEX1457

[4] Equipment or Protective System: Magnet Stick

[5] Applicant and manufacturer  
[6] Address: SAGAB  
Postbox 86  
S51722 Bollebygd  
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. 11278

[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, 2003-12-19

Rolf Hoel  
Certification Department

*This certificate may only be reproduced in its entirety and without any change, schedule included.*

Postal address:  
P.O.Box 73 Blindern  
N-0314 OSLO, NORWAY

Office address:  
Gaustadalléen 30  
0373 OSLO

Telephone:  
+47 22 96 03 30  
Fax:  
+47 22 96 05 50

Enterprise number:  
NO 974404532

**[13] Schedule****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX1457****[15] Description of Equipment or Protective System**

When a magnetic field is present, e.g. an activated coil in a solenoid valve, the red indicator inside the plastic tip will illuminate. The indicator responds to all kind of magnetic fields; direct current, alternating current or permanent magnets.

**Information:**

This Certificate is only valid when batteries are used in accordance with manufacturers instruction. Only batteries, which have been tested in conjunction with the Volt Stick, can be used. Such batteries are:

Toshiba Alkaline AAA  
Duracell Plus AAA

**Type Designation**  
Magnet Stick

**Technical Data**  
2x1,5V

**Ingress Protection Code**  
IP20 according to EN 60529.

**[16] Report No. 11278****Descriptive Documents**

Name/Title/Description	Drawing No./reference	Rev.	Date
Circuit Diagram	Magnet Stick ATEX	-	2003-09-30
Component list	Komponentspesifikasjon Magnet Stick ATEX	2003-11-14	2003-11-13
Material declaration	Produktmaterial	1	2003-11-18
Marking	Specification for customized Magnet Stick 702 62Exr	-	2003-11-24
Marking	Specification for customized Magnet Stick 702 628	-	2003-11-24
Instructions	Instructions for ATEX magnet stick	1	2003-12-17

**Routine Test**

None

**[17] Special Conditions for Safe Use**  
See [15]**[18] Essential Health and Safety Requirements**  
See item 9

*This certificate may only be reproduced in its entirety and without any change, schedule included.*

Postal address:  
P.O.Box 73 Blindern  
N-0314 OSLO, NORWAY

Office address:  
Gaustadalléen 30  
0373 OSLO

Telephone:  
+47 22 96 03 30  
Fax:  
+47 22 96 05 50

Enterprise number:  
NO 974404532

**SUPPLEMENT 1 TO EC-TYPE EXAMINATION CERTIFICATE****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX1457****[15] Description of Equipment or Protective System**

This Certificate covers change in descriptive documents concerning marking. Besides this, all conditions are as previously certified.

**[16] Report No. 88667****Descriptive Documents**

Name/Title	Drawing No.	Rev.	Date	Sheets
Marking	Specification for customized Magnet Stick 702 62Exr	2006-04-20	2003-11-24	1
Marking	Specification for customized Magnet Stick 702 628	2006-04-20	2003-11-24	1

**[17] Special Conditions for Safe Use**

None

**[18] Essential Health and Safety Requirements**

See item 9

Oslo, 2007-04-26



**Rolf Hoel**

**Certification Manager, Ex-products**

*This certificate may only be reproduced in its entirety and without any change, schedule included.*

Postal address:  
P.O.Box 73 Blindern  
N-0314 OSLO, NORWAY

Office address:  
Gaustadalléen 30  
0373 OSLO

Telephone:  
+47 22 96 03 30  
Fax:  
+47 22 96 05 50

Enterprise number:  
NO 974404532



# 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 07.0002**

Issue No.: **0**

Status: **Current**

Date of Issue: **2007-03-29**

Page **1** of **3**

Applicant: **SAGAB ELECTRONIC AB**  
Kungsbackavägen, Box 88  
SE-517 22 Bollebygd  
Sweden

Electrical Apparatus: **Magnet Stick**  
Optional accessory:

Type of Protection: **Intrinsic Safety**

Marking: **Ex ib IIC T4**


Approved for issue on behalf of the IECEx  
Certification Body:

Rolf Hoel

Position:

Certification Manager

Signature:  
(for printed version)

  
2007-03-29

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.

Certificate issued by:

**NEMKO**  
Gaustadalleen 30  
Oslo N-0314  
Norway





# IECEx Certificate of Conformity

Certificate No.: **IECEX NEM 07.0002**

Date of Issue: **2007-03-29**

Issue No.: **0**

Page 2 of 3

Manufacturer: **SAGAB ELECTRONIC AB**  
Kungsbackavägen, Box 86  
SE-517 22 Bollebygd  
**Sweden**

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 manufacture'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:

<b>IEC 60079-0 : 2000</b> Edition: 3.1	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
<b>IEC 60079-11 : 1999</b> Edition: 4	Electrical apparatus for explosive gas atmospheres - Part 11: Intrinsic safety 'i'

*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/ExTR07.0002/00

### Quality Assessment Report:

NO/NEM/QAR07.0002/00



# IECEx Certificate of Conformity

Certificate No.: IECEx NEM 07.0002

Date of Issue: 2007-03-29

Issue No.: 0

Page 3 of 3

## Schedule

### EQUIPMENT:

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

#### Description of Equipment or Protective System

When a magnetic field is present, e.g. an activated coil in a solenoid valve, the red indicator inside the plastic tip will illuminate. The indicator responds to all kind of magnetic fields; direct current, alternating current or permanent magnets.

#### Information:

This Certificate is only valid when batteries are used in accordance with manufacturers instruction. Only batteries, which have been tested in conjunction with the Volt Stick, can be used. Such batteries are:

Toshiba Alkaline AAA

Duracell Plus AAA

#### Type Designation

Magnet Stick

#### Technical Data

2x1,5V

CONDITIONS OF CERTIFICATION: NO