

**[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 03ATEX222****[4] Equipment or Protective System: PowerLoop Module**  
**[5] Applicant/ Manufacturer: Autronica fire and security**  
**[6] Address: Haakon VII gt. 4**  
**7483 Trondheim**  
**Norway****[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. 10185****[9] Compliance with the Essential Health and Safety Requirements has been assured by compliance with:**  
**CENELEC EN 50014: 1997 + A1: 1999 + A2: 1999**  
**CENELEC EN 50019: 2000**  
**CENELEC EN 50028 :1987****[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 em II T4, Ta=70°C**

Oslo, 2004-01-26

**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 03ATEX222****[15] Description of Equipment or Protective System**

This certificate covers a PowerLoop interface designed for third party detectors connected to the Autosafe Interactive Fire Alarm System.

**Type Designation**

BN-342/EX

**Technical Data**

Terminals 1,2,3,4: Um=30V, Im=10000A

Terminals 5,6: Uo=24V, Po=9,5W

Terminals 7,8: Um=12V, Im=10000A

**Ingress Protection Code**

IP 66 according to EN 60529

**[16] Report No. 10185****Descriptive Documents**

Name/Title	Drawing No.	Rev.	Date	Sheets
Schematic drawing	BS-1188	B	2003.05.05	3
Schematic drawing	BS-1208		2003.02.06	1
Circuit assembly drawing	7212-366.107	2	2003.03.17	1
Circuit assembly drawing	7212-366.007	2	2003.03.17	1
Circuit assembly drawing	7212-373.007	0	2002.11.15	1
Component list	9212-366.003	0	2003.03.19	2
Component list	9212-373.0001	0	2003.03.19	1
BN-342/Ex Graveringstegning	E-2637		2003.04.11	1
BNB-342/EX Connection label	E-2642		2003.05.26	1
BN-342/ Monteringsplate for mantelklemmer	UY-102	A	2003.04.01	1
Støpeform for kretskort 4-20mA input power-loop	UG-775		2001.01.27	1
BN-342/EX Assembly drawing	UG-792	B	2003.05.28	1
BNB-342/EX Connection and dimension drawing	UG-797		2003.05.28	1
BN-342/Ex Dimensional drawing	UG-794		2003.05.28	1
BNB-342/EX Innstøpning av kretskort BNA-342	UG-795		2003.05.28	1
BN-342/Ex Dimensional drawing	UG-800		2003.12.02	1

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

None

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

See item 9

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Enterprise number:  
NO 974404532

**SUPPLEMENT 2 TO EC-TYPE EXAMINATION CERTIFICATE****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX222****[15] Description of Equipment or Protective System**

This certificate covers a PowerLoop interface designed for third party detectors connected to the Autrosafe Interactive Fire Alarm System.

This supplement covers minor changes of the descriptive documents.

**[16] Report No. 236180**

Descriptive Documents				
Name/Title	Drawing No.	Rev.	Date	Sheets
Schematic drawing	BS-1188	C	2004.11.09	3
Schematic drawing	BS-1208	A	2013.04.21	1
Circuit assembly drawing	7212-366.107	3	2005.01.17	1
Circuit assembly drawing	7212-366.007	3	2005.01.17	1
Circuit assembly drawing	7212-373.007	0	2002.11.15	1
Component list	9212-366.0003	5	2012.10.15	5
Component list	9212-373.0001	1	2006.01.01	1
BN-342/Ex Graveringstegning	E-2637		2003.04.11	1
BNB-342/EX Connection label	E-2642		2003.05.26	1
BN-342/ Monteringsplate for mantelklemmer	UY-102	B	2005.04.20	1
Støpeform for kretskort 4-20mA input power-loop	UG-775	E	2013.04.23	1
BN-342/EX Assembly drawing, sammenstilling	UG-792	G	2013.04.16	1
BNB-342/EX Connection and dimension drawing	UG-797		2003.05.28	1
BNB-342/EX Innstøpning av kretskort BNA-342	UG-795	A	2013.04.17	1
BN-342/Ex Dimensional drawing	UG-800		2003.12.02	1
Primer- og lakk-tegning BNA-342/BNF-342	BN-173		2013.04.23	1

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

None

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

See item 9

Oslo, 2013.06.11



**Asle Kaastad**  
Certification Manager, Ex-products

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**SUPPLEMENT 1 TO EC-TYPE EXAMINATION CERTIFICATE****[14] EC-TYPE EXAMINATION CERTIFICATE No Nemko 03ATEX222****[15] Description of Equipment or Protective System**

This Supplement 1 is issued in order to confirm compliance with the equivalent standards:  
IEC 60079-0:1998, IEC 60079-7:2001 and IEC 60079-18:1992

**[16] Report No. 113194****[17] Special Conditions for Safe Use**  
None**[18] Essential Health and Safety Requirements**  
See item 9**Oslo, 2008-09-15**A handwritten signature in blue ink, appearing to read 'Rolf Hoel', is written over a grey rectangular background.**p.p. Rolf Hoel  
Certification Department**

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