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

Certificate No.:	IECEx BKI 08.0016	issue No.:0	Certificate history:
Status:	**Current**		
Date of Issue:	**2008-10-31**	Page 1 of 3	

Applicant: **Magnetrol International N.V.**
Heikensstraat 6
B-9240 Zele
Belgium
Belgium

Electrical Apparatus: **Digital Level transmitter system type E3 Modulevel**
Optional accessory:

Type of Protection: **General requirements, Intrinsically safe**

Marking: **Ex ia IIC T4 Ga**
-40°C up to +70°C

Approved for issue on behalf of the IECEx Certification Body: Janos HANKO

Position: Director

Signature:
(for printed version)

Date: 2008-10-31

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

Testing Station for Explosion Proof Equipment
H 1037 BUDAPEST
MIKOVINY S.u. 2-4
Hungary

Robbanásbiztos Berendezések BKI Vizsgáló Állomása Ex

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Manufacturer: **Magnetrol International Inc.**
5300 Belmont Road
Downers Grove, IL 60515
U.S.A
United States of America

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 prodı 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 identi documents, was found to comply with the following standards:

IEC 60079-0 : 2004 Edition: 4.0	Electrical apparatus for explosive gas atmospheres - Part 0: General requirements
IEC 60079-11 : 1999 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 thos 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:

HU/BKI/ExTR08.0015/00

Quality Assessment Report:
CA/CSA/QAR06.0004/01

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Schedule

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

STANDARDS: IEC 60079-0:2007 Electrical apparatus for explosive atmosphere – Edition: 5 Part 0: General requirementsIEC 60079-11:2006 Electrical apparatus for explosive atmosphere – Edition: 4 Part 11: Intrinsically safe "i"IEC 60079-26:2006 Electrical apparatus for explosive atmosphere – Edition: 2 Part 26: Equipment with equipment protection level (EPL) GaIEC 60079-27:2008 Electrical apparatus for explosive atmosphere – Edition: 2 Part 27: Fieldbu intrinsically safe concept (FISCO)

CONDITIONS OF CERTIFICATION: NO

Annexe: Addendum to IECEx BKI 08.0016.pdf

ADDENDUM TO IECEx CERTIFICATE OF CONFORMITY

IECEx BKI 08.0016

1. **Description**

   Digital level transmitter type E3 Modulevel

2. **Type assortment**

   E3 X – X X X X – X X X

   Legend of the signs from left to right

1_, 2_	Code for manufacturer
3_	Code mounting and material
4_, 5_ 6_, 7_	Type specifications
8_	Output (Hart, Fieldbus, Profibus)
9_	Integral / Remote temperature range
10_	Housing material / approval / cable entry A = Aluminium, Ex i, ½" NPT B = Aluminium, Ex i, M20 C = SST, Ex i, ½" NPT D = SST, Ex i, M20

3. **Electrical parameters**

3.1 4-20 mA models (HART)

U_i = 28.4 V
I_i = 94 mA
P_i = 0.67 W
C_i = 2.2 nF
L_i = 3µH

3.1 FISCO models

U_i = 17.5 V
I_i = 380 mA
P_i = 5.32 W
C_i = 0.705 nF
L_i = 3µH

4. **Ambient temperature**

   -40°C up to +70°C

5. **Ingress protection**
   The transmitter enclosure provides a degree of protection IP66 as per IEC 60529.

Special conditions for safe use:

Materials marked as using in "Zone 0 equipment" shall be installed in such a way that, even in the event of rare incidents, the aluminium enclosure cannot be an ignition source due to impact or friction.

Drawings

Report No. 0.07127		30 pages		2008.04.29
The installation and operating manual E3 Modulevel				
099-7219	Modulevel III	2 pages	rev A	2007.05.14
094-5056	Wiring board	3 pages	rev E	2007.11
030-9151	Safety wiring board	2 pages	rev H	2007.11
009-9346-001		2 pages	rev A	2008.01.29
094-6052	Enhanced 705 Digital Board Schematic	3 pages	rev E	2007.08.20
030-9145	Enhanced 705 Digital Board Assembly	3 pages	rev V	2007.08.17
09-9310-001		6 pages	rev G	2008.04.24
094-6053	Enhanced M16C H1&PA Fieldbus Digital Board	4 pages	rev K	2007.08
030-9150	M16C Fieldbus Digital Board Assembly	3 pages	rev R	2007.08
09-9323-001		6 pages	rev G	2008.04.24
094-6060	Schematic Modulevel III Analog Board	2 pages		2007.12.12
030-2475	Modulevel III Analog P.C. Board Assembly	2 pages	rev R	2008.03.24
09-9339-001			rev D	2008.04.24
009-9327-001		2 pages	rev A	2008.08.08
094-5062	HART Wiring Board	1 page		2008.08.01