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 KEM 08.0015X	Issue No: 2	Certificate history:
Status:	**Current**	Page 1 of 5	Issue No. 2 (2014-01-06)
Date of Issue:	**2014-01-06**		Issue No. 1 (2011-03-04)
			Issue No. 0 (2008-09-03)

Applicant: **Magnetrol International NV**
Heikensstraat 6
9240 Zele
Belgium

Electrical Apparatus: **Magnetostrictive Level Transmitter Jupiter Model 2..-K...-.....-...**

Optional accessory:

Type of Protection: **Ex ia**

Marking: Ex ia IIC T4 Ga

Approved for issue on behalf of the IECEx Certification Body: R. Schuller

Position: Certification Manager

Signature:
(for printed version)

Date: 2014-01-06

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:

DEKRA Certification B.V.
Meander 1051
6825 MJ Arnhem
The Netherlands

DEKRA

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Manufacturer:

Magnetrol International NV
Heikensstraat 6
9240 Zele
Belgium

Additional Manufacturing location(s):

Orion Instruments
2105 Oak Villa Boulevard
Baton Rouge
Louisiana
70815
United States of America

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 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:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-26 : 2006 Edition:2	Explosive atmospheres - Part 26: Equipment with equipment protection level (EPL) Ga

*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:

NL/KEM/ExTR08.0014/01 NL/KEM/ExTR08.0014/02

Quality Assessment Report:

CA/CSA/QAR10.0005/02 NL/DEK/QAR11.0031/01

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Magnetostrictive Level Transmitter Jupiter Model 2..-K...-.....-... is used for level detection.
Using the principle of magnetostriction and the effect of a magnetic field on the magnetostrictive wire, a fluid level is converted into a 4 - 20 mA current with Hart signal or a digital fieldbus signal.
The maximum probe length is 9.75 m.

The transmitter enclosure provides a degree of protection IP 66 as per IEC 60529.

Ambient temperature range -40 °C to +70 °C.

CONDITIONS OF CERTIFICATION: YES as shown below:

Because the enclosure of the Magnetostrictive Level Transmitter Jupiter Model 2.1-K...-.....-... or Model 2.2-K...-.....-... is made of aluminium, if it is mounted in an area where the use of apparatus of EPL Ga is required, it must be installed such, that, even in the event of rare incidents, ignition sources due to impact and friction sparks are excluded.

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EQUIPMENT (continued):

Electrical data

Level Transmitter Jupiter Model 24.-K...-.....-... and Model 26.-K...-.....-... and Model 27.-K...-.....-...:
Output/supply circuit (terminals + and -):
in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit,
with the following maximum values:
U_i = 28.4 V; I_i = 124 mA; P_i = 0.84 W; C_i = 2.2 nF; L_i = 3 µH

Level Transmitter Jupiter Model 25.-K...-.....-... and Model 28.-K...-.....-...:
Output/supply circuit (terminals + and -):
in type of protection intrinsic safety Ex ia IIC, suitable for connection to a FISCO system in accordance with IEC 60079-27, with the following maximum values:
U_i = 17.5 V; I_i = 380 mA; P_i = 5.32 W; C_i = 3 nF; L_i = 3 µH;

or

in type of protection intrinsic safety Ex ia IIC, only for connection to a certified intrinsically safe circuit,
with the following maximum values:
U_i = 28.4 V; I_i = 124 mA; P_i = 0.84 W; C_i = 3 nF; L_i = 3 µH

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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Assessment of equipment to latest edition of the standards;
Entity parameter I_i changed to 124 mA.