



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 DEK 11.0099X Issue No: 1 Certificate history:
Status: Current Page 1 of 4 Issue No. 1 (2014-07-25)
Date of Issue: 2014-07-25 Issue No. 0 (2013-04-17)
Applicant: **Magnetrol International N.V.**
Heikensstraat 6
9240 Zele
Belgium
Electrical Apparatus: **Guided Wave Radar Level Transmitter Eclipse, Model 706-5...-...**
Optional accessory:
Type of Protection: **Ex d or Ex tb + Ex ia**
Marking: Ex d [ia] IIC T6...T1 Ga/Gb or
Ex tb [ia] IIIC T85 °C...T450 °C Da/Db
Ambient temperature range -40 °C to +70 °C for type of protection Ex d,
Ambient temperature range -15 °C to +70 °C for type of protection Ex tb.

Approved for issue on behalf of the IECEx
Certification Body:

R. Schuller

Position:

Certification Manager

Signature:
(for printed version)



2014-07-25

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](http://www.iecex.com).

Certificate issued by:

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





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Manufacturer: **Magnetrol International N.V.**
Heikensstraat 6
9240 Zele
Belgium

Additional Manufacturing
location(s):
Magnetrol International Inc.
705 Enterprise Street
Aurora IL 60504
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 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
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
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*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/DEK/ExTR11.0116/00](#) [NL/DEK/ExTR12.0063/00](#)

Quality Assessment Report:

[CA/CSA/QAR06.0004/08](#) [NL/DEK/QAR11.0031/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Guided Wave Radar Level Transmitter Eclipse Model 706-5...-..., connected to intrinsically safe Probe Eclipse Model 7...-..., is used for level detection.

Using the Domain Reflectometry and Micro Power Impulse Radar Technology, a fluid level is converted into a 4 - 20 mA current with Hart or fieldbus signal.

The maximum probe length is 30 m.

The transmitter enclosure provides a degree of protection IP66 as per IEC 60529

Ambient temperature range -40 °C to +70 °C for type of protection Ex d;

Ambient temperature range -15 °C to +70 °C for type of protection Ex tb.

Process temperature range -196 °C to +450 °C

The relation between the process temperature, the temperature class and the maximum surface temperature is laid down in the following table:

Process temperature [°C]	<450	<300	<200	<135	<100	<85
Temperature class, group II	T1	T2	T3	T4	T5	T6
Max. surface temp. group III [°C]	450	300	200	135	100	85

Electrical signal:

Supply/output circuit with 4 - 20 mA Hart signal:.. 9 - 36 Vdc, 4 - 20 mA

Supply/output circuit with Fieldbus:..... 9 - 32 Vac, 17 mA

CONDITIONS OF CERTIFICATION: YES as shown below:

- The risk of electrostatic discharge shall be minimized at installation, following the directions given in the instructions.
- Contact the original manufacturer for information on the dimensions of the flameproof joints.



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

Additional Manufacturing location and link to associated QAR added.