



# 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 BKI 12.0003

Issue No: 1

Certificate history:

Status: Current

Issue No. 1 (2018-06-13)

Issue No. 0 (2012-06-04)

Date of Issue: 2018-06-13

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

Equipment: ECHOTEL Ultrasonic level switch Models 96\*-\*\*\*\*-\*\*\*

Optional accessory:

Type of Protection: General requirements, Flameproof enclosures "d"

Marking:

Ex d IIC T6 Ga/Gb

Approved for issue on behalf of the IECEX  
Certification Body:

Edit Molnár

Position:

Head of the Certification Body

Signature:  
(for printed version)

Date:

2018-06-13

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:

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





# IECEX Certificate of Conformity

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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 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 : 2007-10 Edition:5	Explosive atmospheres - Part 0:Equipment - General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
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:

[HU/BKI/ExTR12.0003/00](#)

Quality Assessment Report:

[CA/CSA/QAR06.0004/11](#)

[NL/DEK/QAR11.0031/04](#)



# IECEX Certificate of Conformity

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## Schedule

### EQUIPMENT:

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

The Echotel<sup>®</sup> Model 96\* Ultrasonic Level Switch is a single or dual point level switch, that utilizes pulsed signal technology to detect high or low level alarm(s) point(s) of liquid media. Both the electronics and the transducer is protected by flameproof enclosure.

See details in Addendum to IECEX BK1 12.0003.

SPECIFIC CONDITIONS OF USE: NO



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

### Issue 1

Change the address of the manufacturer, Magnetrol International Inc.

The new address: 705 Enterprise Street, Aurora, IL60504, United States of America

IECEX QAR of the manufacturer: CA/CSA/QAR06.0004/11

### Annex:

[Addendum to IECEx BKI 12.0003.pdf](#)

**1. Description**

The **Echotel® Model 96\* Ultrasonic Level Switch** is a single or dual point level switch, that utilizes pulsed signal technology to detect high or low level alarm(s) point(s) of liquid media. Both the electronics and the transducer is protected by flameproof enclosure. Additionally the wall of the transducer forms a mechanical separation element (homogeneous wall with a thickness more than 1 mm) to seal off the electrical circuits of the transducer from the area requiring EPL Ga. Furthermore the transducer does not contain an ignition capable source so the transducer can be mounted in the area requiring EPL Ga.

**2. Type assortment**

**9 6 \* - \* \* \* \* - \* \* \***

Basic model number

960= Single Point Level Switch with AS-Interface®  
961= Single Point Level Switch  
962= Dual Point Level Switch

Input power

2= 24VDC, line powered  
5= 24VDC, loop powered  
7= AC 120V/240V

Output signal

D= DPDT relay  
H= DPDT relay, hermetically sealed  
0= 8/16mA current shift  
8= Actuator sensor interface (AS-i)

Self-test

A= Automatic & manual via push button

Options

0= Blind housing cover  
1= Housing cover with glass window

Mounting

0= Integral mount electronics  
1= Remote mount electronics

Classification

C= ATEX II 1/2 G / IEC Ex d IIC T6 Ga/Gb (flameproof enclosure)  
W= FM/CSA/ATEX II 1/2 G / IEC Ex d IIC T6 Ga/Gb

Housing & Electrical entry

0= Cast aluminum with 3/4" NPT dual conduit entries  
1= Cast aluminum with M20 dual conduit entries  
2 =Cast stainless steel with 3/4"NPT dual conduit entries  
3 =Cast stainless steel with M20 dual conduit entry

Note: only metal transducers may be used for hazardous area

**3 Electrical data**

Power input	U <sub>i</sub> = 24 VDC, line powered U <sub>i</sub> = 24 VDC, loop powered U <sub>i</sub> = 120V/240V AC
Signal output	DPDT relay DPDT relay, hermetically sealed 8/16mA current shift Actuator sensor interface (AS-i)
Power Consumption	< 3W (relay version) < 1W (mA version)

**4 Ambient temperature range**

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

**5 Ingress protection**

The enclosure provides a degree of protection IP 66.



**Special conditions for safe use**

None

**Drawings**

<b>Title:</b>	<b>Drawing No.:</b>	<b>Rev. Level:</b>	<b>Date:</b>
Model 96x ECHOTEL Ex d	99-6531	rev. C	06.03.2012
ECHOTEL transducer assembly series 96x	99-6532	rev. A	06.03.2012
TIP Sensor 2Mhz	058-1203		29.06.2004
Base and cover THERMATEL / ECHOTEL	99-7216	rev. B	26.05.2011
Screw-set for approved units	010-1216	rev. K	26.05.2011
Technical description ECHOTEL 96x	99-6531 annex1		26.05.2011
Installation and Operating manual	58-610.2		01.2011
Declaration of conformity Belgium	BE51-650.0		25.05.2011
Declaration of conformity USA	51-746.0		05.03.2012
Routine test report	AP 51-646		13.02.2012
Declaration			04.06.2012