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de service public

Métrieologie environnementale  
Recherche - Analyses  
Essais - Expertises

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- (1) **EC TYPE EXAMINATION CERTIFICATE**
- (2) **Equipment or protective system intended for use  
in potentially explosive atmospheres  
Directive 94/9/EC**
- (3) EC type examination certificate number: **ISSeP06ATEX008**
- (4) Equipment : Echotel level or flow sensor  
Models 961 / 962
- (5) Applicant – Manufacturer :  
Magnetrol International N.V.
- (6) Address: Heikensstraat 6  
9240 Zele
- (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) ISSeP, notified body n° 492 in accordance with article 9 of the 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 05089
- (9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 50014 : 1997 + A1 and A2 : 1999                      EN 50018 : 2000 + A1 : 2002  
EN 50284 : 1999    EN 1127-1 : 1997
- (10) If the symbol "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 this Directive may 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 indications:  
 II 1/2 G    EEx d IIC T6

Colfontaine, the 08.02.2006

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC  
Zoning A. Schweitzer - B7340 Colfontaine (Wasmès)  
Tél: ++ 32 65 610811 – Fax: ++ 32 65 610808

M. Lambert  
Manager.

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(13)

**SCHEDULE**

(14) **EC TYPE EXAMINATION CERTIFICATE No ISSeP06ATEX008**

(15) Description of the equipment:

Echotel level or flow sensor – models 961 / 962

This apparatus consists of:

- an aluminium alloy or stainless steel housing containing the electronic equipments
- a bushing of wires screwed on the base of the housing
- a probe fixed directly on the bushing or via an extension tube. This probe bears the designation 9A\*-\*-\*-\*-\* (length in inches) or 9M\*-\*-\*-\*-\* (length in metric units)

This apparatus bears the type designation: 9 6 X - X X X X - X X X

Model number : -----  
 Supply : -----  
 Output : -----  
 Auto-test : -----  
 Options : -----  
 Mounting : -----  
 Classification : -----  
 Housing – entry : -----

Eventual prescriptions

Ambient temperature range: -40°C up to +70°C

Electrical characteristics

Voltages supply: 24 V DC or 120 / 240 V AC

Routine test

The manufacturer shall make the routine verifications and tests necessary to ensure that the electrical apparatus produced complies with the specification submitted to the testing station together with the prototype.

The housings are exempted from the overpressure routine test; however the extension tube with its probe shall be submitted to an overpressure test under the value of minimum 20 bar during at least 10 sec. (max 60 sec).

- (16) Report no 05089 of 6.02.2006 composed in total of 25 pages.  
 The letters from Magnetrol references Echo-d-06b of 21.09.2005 and Echo-d-06c of 14.12.2005  
 The installation and operating manual Ref. Bulletin N°:51-646.0 of January 2006  
 The drawings  
 010-1216 of 21.11.1994 Rev H signed on 21.06.2005  
 99-6531 of 14.06.2005 Rev.A signed on 14.12.2005 (2 sheets).  
 99-6532 of 15.06.2005 Rev.A signed on 21.09.2005 (2 sheets)  
 99-7216 of 24.02.2004 Rev.B December 2005 signed on 14.12.2005
- (17) Special conditions for safe use: none
- (18) Essential Health and Safety Requirements: covered by the standards listed at point 9 and by the descriptive documents of the manufacturer

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## VARIATION

### EC TYPE EXAMINATION CERTIFICATE N° ISSeP06ATEX008/1

(14) Equipment: Echotel level sensor – models 960 & 961 & 962

(15) Subject of the variation:

The model 960 is added to the initial range. This housing contains an electronic module with ASI communication.

Marking: Unchanged except the type designation 960

Eventual prescriptions :

Ambient temperature ranges:  $-40^{\circ}\text{C} \leq T_{\text{amb}} \leq +70^{\circ}\text{C}$

Electrical characteristics

Voltages supply: 24 V DC or 120 / 240 V AC

(16) Report n° 07003 of 31.01.2007 (6 pages) completed by the descriptive documents below.

The letter from the manufacturer of 10 January 2007 – reference Echo-d-07a

The e-mail from the manufacturer of 31 January 2007

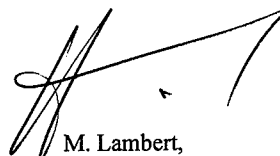
The drawings

99-6531 of 14.06.2005 Rev. B of January 2007 - signed on 10.01.2007 (2 sheets)

(17) Special conditions for safe use: none

(18) Essential Health and Safety Requirements : covered by the standards listed at point 9 of the certificate and by the descriptive documents of the manufacturer.

Colfontaine, 01.02. 2007



M. Lambert,  
Directeur

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