

(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: **ISSeP09ATEX020X**

(4) Equipment or protective system:  
Level radar transmitter type R82.

(5) Applicant – Manufacturer – ~~Authorized representative in the Community:~~  
MAGNETROL INTERNATIONAL n.v .

(6) Address: Heikensstraat 6  
B – 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 n° 08132.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:  
EN 60079-0 : 2006 (CEI 60079-0 : 2004)  
EN 60079-11 : 2007 (CEI 60079-11 : 2006)  
EN 60079-26 : 2007 (CEI 60079-26 : 2006)

(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.

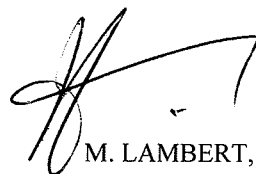
(11) This EC TYPE EXAMINATION CERTIFICATE relates only to the design, examination and tests of the specified equipment or protective system in accordance to the Directive 94/9/EC. Further requirements of this Directive may apply to the manufacturing process and supply of this equipment or protective system. These are not covered by this certificate.

(12) The marking of the equipment or protective system shall include the following indications:

 II 1 G Ex ia II C T4

Colfontaine, the 08.05.2009

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SERVICE PUBLIC  
Zoning A. Schweitzer,  
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M. LAMBERT,  
Manager.

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(13)

**SCHEDULE**

(14)

**EC TYPE EXAMINATION CERTIFICATE N<sup>R</sup> ISSEP09ATEX020X**

(15) Description of the equipment or protective system:

Level radar transmitter type R82

Possible and admissible variations :

R 8 2 - 5 B X X - X X X

Model R82 \_\_\_\_\_

Power/signal \_\_\_\_\_

5 = 24 VDC two wires; 4 – 20 mA with HART

Certification \_\_\_\_\_

B = ATEX Ex ia

Housing/conduit connection \_\_\_\_\_

- 0 = Cast aluminium 3/4"NPT
- 1 = Cast Aluminium M20
- 2 = Cast SST 3/4"NPT
- 3 = Cast SST M20
- 6 = LEXAN plastic 3/4"NPT
- 7 = LEXAN plastic M20

Accessories \_\_\_\_\_

A = Digital display + keyboard

Options \_\_\_\_\_

Antenne type \_\_\_\_\_

- 1 = Polypropylen, extension 6" (150 mm)
- 2 = Polypropylen, extension 12" (300 mm)
- 3 = TEFZEL, extension 6" (150 mm)
- 4 = TEFZEL, extension 12" (300 mm)

Process connection \_\_\_\_\_

NPT, BSP or flange

Electrical parameters

U<sub>i</sub> = 28.4 V      or      U<sub>i</sub> = 28 V  
 I<sub>i</sub> = 94 mA        I<sub>i</sub> = 120 mA  
 P<sub>i</sub> = 0.67 W       P<sub>i</sub> = 0.84 W

L<sub>i</sub> = 370 µH  
 C<sub>i</sub> = 5.5 nF

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## SCHEDULE

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(15) Routine tests :

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 or sample (clause 27 of IEC 60079-0).

Eventual prescriptions : ta : - 40°C to + 70°C

(16) Report n<sup>r</sup> 08132 of 05.05.2009

Composed in total of 24 pages, completed by the following descriptive documents :

The instruction manual "Model R82 Installation and Operation Manual"

The drawings

Number	Rev.	Date	Pg	Description
99-7223	A	24.10.2008	2	Model R82 Strobe ATEX Ex ia
036-5706	A	11.02.2009		Model R82 Strobe Electronic Module
094-6061	A	21.02.2009		Schematic Strobe 26 GHz Radar RF
030-9152	A	21.02.2009	2	Assembly Strobe 26 GHz Radard RF P.C. Board
09-9340-001	F	06.03.2009	6	
094-6062	B	21.02.2009	2	Schematic Strobe Processor
030-9153	B	21.02.2009	2	Strobe Processor P.C. Board Assembly
09-9341-001	D	20.02.2009	6	
094-6063	B	20.02.2009	2	Schematic Strobe Power/Wiring
030-9156	B	20.02.2009	2	Strobe Power/Wiring P.C. Board Assembly
09-9343-001	D	06.03.2009	8	

(17) Special conditions for safe use:

Symbol X

- Material marked as Category 1 equipment and used in hazardous areas requiring this category, 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.
- Enclosures in plastic material don't answer to specifications of clause 7 of EN 60079-0 and 4.5 of EN 60079-26 ; all precautions shall be taken during the installation and use of the material to avoid all electrostatic charges.

(18) Essential Health and Safety Requirements: covered by the Standards listed in (9)

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