



**Institut scientifique
de service public**
Métrologie environnementale
Recherche - Analyses
Essais - Expertises

**Siège social
et site de Liège :**
Rue du Chéra, 200
B-4000 Liège
Tél : +32(0)4.229.83.11
Fax : +32(0)4.252.46.65

Site de Colfontaine :
Zoning A. Schweitzer,
rue de la Platinerie
B-7340 Colfontaine
Tél : +32(0)65.61.08.11
Fax : +32(0)65.61.08.08

e-mail :
direction@issep.be
site web :
http://www.issep.be



(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: **ISSeP06ATEX024X**

(4) Equipment or protective system:
Magnetostrive level Transmitter type JUPITER

(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° 06003.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with: EN 50014 : 1997 + A1 and A2 : 1999
EN 50020 : 2002
EN 50284 : 1999
IEC 60079-27 : 2005

(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 EEx ia II C T4

Colfontaine, the 21.04.2006


M. LAMBERT,
Manager.

INSTITUT SCIENTIFIQUE DE
SERVICE PUBLIC
Zoning A. Schweitzer,
rue de la Platinerie
B-7340 COLFONTAINE (Wasmès)
Tél: ++ 32 65 610811 –
Fax: ++ 32 65 610808

This certificate may only be reproduced in its entirety and without any change, schedule included



(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP06ATEX024X

(15) Description of the equipment or protective system:

Magnetostrictive level Transmitter type JUPITER

Possible and admissible variations :

2 X X - X X X X - X X X

Transmitter type & mounting

2 = JUPITER magnetostrictive

Output and indicator

Configuration / units of measure

Probe materials

- 1 = 316 SS
- 2 = Hastelloy
- 3 = Monel

Mounting connection

Housing material, conduit entry, approval

- E = Aluminium 3/4" NPT EEx ia
- F = Aluminium M20 EEx ia
- G = SST 3/4" NPT EEx ia
- H = SST M20 EEx ia

Probe length

XXX = probe length in inches or cm
 (max : 384 ", 975 cm)

Electrical parameters

4-20 mA models

- U_i = 28.4 V
- I_i = 94 mA
- P_i = 0.67 W
- C_i = 2.2 nF
- L_i = 3 μH

FISCO models

- U_i = 17.5 V
- I_i = 380 mA
- P_i = 5.32 W
- C_i = 0.705 nF
- L_i = 3 μH

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 (EN 50014 - clause 24).

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

This certificate may only be reproduced in its entirety and without any change, schedule included

SCHEDULE

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP06ATEX024X

(16) Report n^f 06003

Composed in total of 29 pages, completed by the following descriptive documents :

The Instruction Manual

The drawings:

Number	Rev.	Date	Pgs	Description
030-9151	E	04.2006	2	Safety Wiring Board
094-5056	C	19.09.2005	1/3	Wiring Board
094-5056	C	22.11.2005	2-3/3	Wiring Board
030-3598	B	01.2006		Hart or Fieldbus Enhanced Jupiter Analog P.C. Bd Assy
094-5057	B	01.2006		Jupiter Magneto Processor Board Schematic
09-9328-001	E	21.12.2005	6	
030-9145	J	11.01.2006	2	Enhanced 705 Digital P.C. Board Assembly
094-6052	A	27.04.2005	3	Enhanced 705 Digital P.C. Board Schematic
09-9310-001	D	19.01.2006	6	
030-9150	G	31.01.2006	2	M16C Fieldbus Digital Board Assembly
094-6053	F	31.01.2006	4	Schematic M16C H1 & PA Fieldbus Digital Board
09-9323-001	E	19.01.2006	4	
031-2839	A	01.2006		Bezel Assembly (Hart)
031-2840	A	01.2006		Bezel Assembly (Fieldbus)
99-7217	A	12.2005	2	Jupiter Magnetostrictive

(17) Special conditions for safe use:

Symbole X

- Materials 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.

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

This certificate may only be reproduced in its entirety and without any change, schedule included

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP06ATEX024X/1

(14) Equipment :
 Magnetostrictive level transmitter type JUPITER.

(15) Subject of the variation :

1. Documents update
2. "Fieldbus" digital circuit upgrade
3. Possibility of a curved probe
4. The codification is modified as follow :

Possible and admissible variations :

	2	X	X	-	X	X	X	X	X	X	X	-	X	X	X
<u>Transmitter type and Mtg</u> 2 = JUPITER magnetostrictive															
<u>Output and indicator</u>															
<u>Housing, conduit entry, approval</u> E = Aluminium 3/4 NPT EEx ia F = Aluminium M20 EEx ia G = SST 3/4" NPT EEx ia H = SST M20 EEx ia															
<u>Configuration</u>															
<u>Probe materials</u> 316 SS Hastelloy Monel															
<u>Mounting connection</u>															
<u>Float</u>															
<u>Units of Measure</u>															
<u>Insertion length</u> XXX = probe length in inches or cm (max : 384 " , 975 cm)															

Electrical parameters : Unchanged

Eventual Prescriptions : Unchanged

This document may not be used without the original certificate

VARIATION

EC TYPE EXAMINATION CERTIFICATE N° ISSeP06ATEX024X/1

(16) Report n° 06069 of 18.07.2006

Composed in total of 6 pages, completed with the following documents :

Curved probe sketch

The drawings:

Number	Rev.	Date	Pgs	Description
030-3598	D	03.2006		Hart or Fieldbus Enhanced Jupiter Analog P.C. Bd Assy
094-5057	C	03.2006		Jupiter Magneto Processor Board Schematic
030-9145	M	17.04.2006	2	Enhanced 705 Digital P.C. Board Assembly
094-6052	B	27.02.2006	3	Enhanced 705 Digital P.C. Board Schematic
030-9150	L	22.06.2006	2	M16C Fieldbus Digital Board Assembly
094-6053	G	22.06.2006	4	Schematic M16C H1 & PA Fieldbus Digital Board
09-9323-001	F	21.06.2006	4	
031-2839	C	07.06.2006		Enhanced Jupiter Bezel Assembly (Hart)
031-2840	D	07.06.2006		Enhanced Jupiter Bezel Assembly (Fieldbus)
99-7217	B	06.2006	2	Jupiter Magnetostrictive

(17) Special conditions for safe use : Unchanged.

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

Colfontaine, 01.08.2006

INSTITUT SCIENTIFIQUE DE SERVICE PUBLIC
Zoning A. Schweitzer, rue de la Platinerie
B-7340 COLFONTAINE (Wasmes)
Tél: ++ 32 65 610811 – Fax: ++ 32 65 610808



M. LAMBERT,
Manager.

This document may not be used without the original certificate