



(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 : **ISSeP04ATEX084X**

(4) Equipment or protective system :

Earth Monitoring System.

(5) Applicant – Manufacturer – ~~Authorized representative in the Community~~ :

STUVEX International N.V.

(6) Address : Heiveldekens 8
2550 Kontich
Belgium

(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° 00159.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:

EN 50014 : 1997 + A1 and A2 : 1999

EN50020 : 2002

EN 50018 : 2000 + A1 : 2002

EN 50039 : 1980


EN 50284 : 1999

EN 50281-1-1 : 1998 + A1 : 2002

(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 D / EEx ia/d IIC T6 – T 85° C – IP66

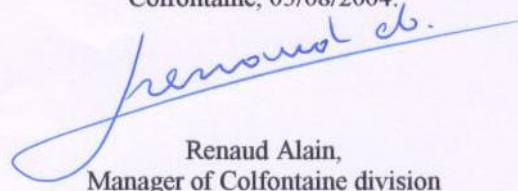
Colfontaine, 03/08/2004.

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Renaud Alain,
Manager of Colfontaine division

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(13)

SCHEDULE

(14)


EC TYPE EXAMINATION CERTIFICATE N^R ISSeP04ATEX084X

(15) Description of the equipment or protective system

Name	Type
Control Unit	S 604 EX
	S 704 EX
	S 804 EX
Cable Reel	CR1/42
	CR 1/55
Cable Connector	CCM
	CCF
Clamp	CL1
	CM1
	CS1
	CB1

Authorized variations : None

Marking

- Name and address of the manufacturer.
- Manufacturer's type identification.
- Serial number.
- Year of manufacture.
- Specific marking of explosion protection :  II 1/2 G D
- Code : EEx ia/d IIC T6 – T 85° C – IP66
- Indication of testing station followed by the reference of the certificate.
- Complementary markings : Um & SYST
- Any other marking required by the standards of construction of the electrical apparatus.

Routine verifications and 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 24 of EN 50014).
- Routine overpressure test exemption is conceded (clause 16 of EN 50018).

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SCHEDULE (Continued)

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP04ATEX084X

Eventual prescriptions

According to the Manuals "Earth Monitoring Systems Resistive & Capacitive".

(16) Report N°00159 of 02.08.2004 (50 pages) completed by the descriptive documents below :

- EC Declaration of conformity of 27.05.2004.
- Notice "Earth Monitoring Systems – Resistive" (14 pages).
- Notice "Earth Monitoring Systems – Capacitive" (14 pages).
- Technical note RDS 00 005 of 28.06.2004 (5 pages).
- Bill of Material LHM522J1R1 (2 pages).
- Bill of Material S704J3R1 (3 pages).
- Certificate CESI 02 ATEX 020 U
- Certificate DMT 00 ATEX E 068 X
- Drawings :

<u>Number</u>	<u>Revision</u>	<u>Date</u>	<u>Description</u>
00-R05-EL-001	-	29.06.2004	Electrical connections – Capacitieve Meting
00-R05-EL-004	3	05.06.2003	Capacitieve Aardingsmeter (1/3)
00-R05-EL-004	2	21.03.2003	Capacitieve Aardingsmeter (2/3)
00-R05-EL-004	2	21.03.2003	Capacitieve Aardingsmeter (3/3)
00-R05-EL-007	3	12.03.2004	
00-R05-EL-008	3	12.03.2004	
00-R05-EL-009	3	12.03.2004	
00-R05-EL-002	-	29.06.2004	Electrical connections – Resistieve Meting
00-R05-EL-003	1	06.05.2004	Resistieve Meting
00-R05-EL-005	1	06.05.2004	Resistieve Meting
00-R05-EL-006	1	06.05.2004	Resistieve Meting
00-R05-EL-010	1	31.03.2004	Resistieve Meting
ME001	2	28.06.2004	Kenplaat IIC
ME002	2	28.06.2004	Kenplaat IIC
00-R05-ME-003	0	29.06.2004	Resistieve Meting
00-R05-ME-004	-	-	

SCHEDULE (Continued)

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP04ATEX084X

(17) Special conditions for safe use (Symbol X)

- The reel will be located in zone 1 or 2, resp. zone 21 or 22.
- Non-metallic parts of some clamps are not in accordance with clause 4.4 of EN 50284.
Special care will be taken to avoid electrostatic discharges when used in zone 0 or zone 20.
- Cable entries will be of a type ATEX/EEEx d IIC and will have a degree of protection not less than IP66.

(18) Essential Health and Safety Requirements

The Essential Health and Safety Requirements are covered by :

- The conformity to European Standards EN 50014, EN 50018, EN 50020, EN 50039, EN 50284 & EN 50281.
- All safety measures taken by the manufacturer and described in the descriptive documentation listed at (16).