

(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: **ISSeP00ATEX010X**

(4) Equipment or protective system:
Level switch TUFFY II

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

(6) Address: **MAGNETROL INTERNATIONAL N.V.**
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° 00066.

(9) Compliance with the Essential Health and Safety Requirements has been assured by compliance with:
EN 50014, ed. 1997 + amendments 1 and 2 of 1999
EN 50020, 2d. ed. 1994
EN 50284, ed. 1999

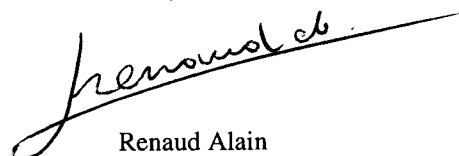
(10) The symbol "X" placed after the certificate number indicates that the equipment or protective system is subject to special conditions for safe use specified in the schedule to this certificate.

(11) This EC TYPE EXAMINATION CERTIFICATE relates only to the design and construction of the specified equipment or protective system. If necessary, other requirements of this directive may apply to the manufacture and supply of this equipment or protective system.

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

 II 1 G EEx ia IIC T6/T4

Colfontaine, the 18.07.2000



Renaud Alain
Manager of Colfontaine division

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(13)

SCHEDULE

(14)

EC TYPE EXAMINATION CERTIFICATE N^R ISSeP00ATEX010X

(15)

Description of the equipment or protective system :

Level switch TUFFY II.

The level switch TUFFY II is composed with 1 or 2 switches inside an enclosure and actuated by a float.

Many types of switch can be used.

The float can be of many forms; the material used can be either stainless steel or Hastelloy.

During the installation and the using of the level switch, all precautions shall be taken in order that the ambient temperature inside the enclosure doesn't exceed the ones indicated on the marking.

Possible and admissible variations :

		T 3	x	-	x	x	x	x	-	x	x	x
Model Tuffy II	_____											
Float Type	_____											
Stem extension length or lower fluid spec. Grav.	_____											
Stem offset	_____											
Process connection size	_____											
Process connection type/rating	_____											
Process connection material	_____											
Switch type	_____											
Housing material/approval	_____											

- M : cast aluminium 3/4 " NPT
- N : cast iron 3/4 " NPT
- P : cast aluminium M20
- R : cast iron M20
- S : SST 3/4 " NPT
- T : SST M20

Electrical parameters :
 U_i = 30 V ; I_i = 0.5 A ; P_i = 0.8 W
 C_i = 4.8 pF ; L_i = 3.84 μH

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SCHEDULE

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Eventual prescriptions : Tamb : -40°C to +70°C for T6
 -40°C to +120°C for T4

(16) Report n° 00066 of 11.07.2000

Composed in total of 21 pages, completed by the following documents:

« TUFFY® T3 Installation and Operating Manual » (12 pages)

The drawings:

Reference	Rev.	Date	Page(s)	Description
09 - 3133	H	05.2000	2	Hermetically sealed microswitch
09 - 3145	A	26.01.1999	1	SPDT switch
09 - 6150	B	08.11.1999	1	Terminal block
09 - 7186	D	15.06.1991	1	18 gauge lead wire
99 - 7173	A	04.04.2000	1	Tuffy II intrinsically safe
99 - 7184	A	12.04.2000	1	ATEX nameplate TUFFY II

(17) Special conditions for safe use:

Symbol X: when the material is equipped with an aluminium enclosure, all precautions shall be taken to avoid all impacts or frictions which can result in the ignition of the potentially explosive atmosphere.

(18) Essential Health and Safety Requirements: None.

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