

- (2) **Equipment and protective systems intended for use in potentially explosive atmospheres
Directive 94/9/EC**

(1) **EC-TYPE EXAMINATION CERTIFICATE**

- (3) Number of the EC type examination certificate: **INERIS 05ATEX0010X**

- (4) Equipment or protective system:

ENCLOSURE TYPE S..I... or SO..I...

- (5) Manufacturer: **COELBO**

- (6) Address: **Via margherita, 83
I - 20047 Brugherio (MI)**

- (7) This equipment or protective system and any other acceptable alternative of this one are described in the annex of this certificate and the descriptive documents quoted in this annex.

- (8) INERIS, notified body and identified under number 0080, in accordance with article 9 of Council Directive 94/9/EC of the 23rd March 1994, certifies that this equipment or protective system fulfils the Essential of Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, described in annex II of the Directive.

The examinations and the tests are consigned in confidential report No P64178/06.

- (9) The respect of the Essential Health and Safety Requirements is ensured by:

- conformity with:

EN 50 014 of June 1997 + Amendments 1 and 2
EN 50 018 of November 2000 + Amendment 1
EN 50 281-1-1 of September 1998 + Amendement 1

- specific solutions adopted by the manufacturer to meet the Essential Health and Safety Requirements described in the descriptive documents.

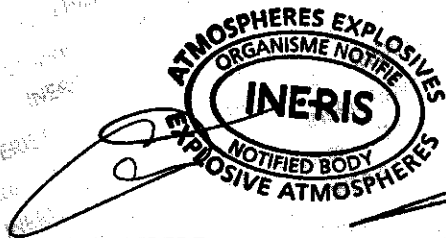
- (10) Sign X, when it is placed following the Number of the EC type examination certificate, indicates that this equipment and protective system is subjected to the special conditions for safe use, mentioned in the annex of this certificate.
- (11) This EC type examination certificate relates only to the design, examination and tests of the specified equipment or protective system in accordance to the directive 94/9/EC. Further requirements of the Directive 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 the protective system will have to contain:



II 2 GD I M2

EEx d I/IIC T6 or EEx d I/IIC T5 or EEx d I/IIC T4
T85 °C or T100 °C or T135 °C IP66

Verneuil-en-Halatte, 2006 09 22



C. PETITFRERE

Project Manager at the ATEX
Equipment Certification Laboratory

Director of the Certifying Body,
By delegation
B. PIQUETTE
Deputy Manager of Certification

(13)

ANNEX

(14)

EC TYPE EXAMINATION CERTIFICATE N° INERIS 05ATEX0010X

(15)

DESCRIPTION OF THE EQUIPMENT OR THE PROTECTIVE SYSTEM

This apparatus consists in a body closed by a screwed lid which can be fitted with a window.
This enclosure is covered by the EC type certificate examination INERIS 04ATEX9002U.
The enclosure gets the protection degrees IP66 according to the European standard EN 60 529

PARAMETERS RELATING TO THE SAFETY

Maximum supply voltage : 750 V (AC) or 660 V (DC)
Maximum power dissipated : See table

MARKING

Marking has to be readable and indelible; it has to include the following indications:

COELBO


I - 20047 Brugherio (MI)

S...I... or SO...I... (*)

INERIS 05ATEX0010X

(Serial number)

(Year of construction)

 II 2 GD

 I M2

EEx d I/IC T (**)

T(***) IP66

T.amb : (****)

T.cable : (*****)

DO NOT OPEN WHEN ENERGIZED

DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(*) The type is completed by number and letters corresponding to the execution variation, the different types are stipulated on the descriptive document.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

Type of box	Temperature ambient range (****)	Maximum power dissipated	Dust explosive atmosphere		Cable temperature (*****)
			Gas (**)	Dust (***)	
S...14/... and SI...24/...	-50 °C to +40 °C	6.5 W	T6	T85 °C	N.C
		9 W			75 °C
	-50 °C to +50 °C	4.5 W			N.C
		6.5 W			75 °C
	-50 °C to +60 °C	4,5 W			80 °C
	-50 °C to +40 °C	7.8 W			T5
		12.5 W	90 °C		
	-50 °C to +50 °C	5 W	N.C		
		10 W	90 °C		
	-50 °C to +60 °C	7.5 W	90 °C		
	-50 °C to +40 °C	8 W	T4	T100 °C	
		20 W			115 °C
	-50 °C to +50 °C	5 W			N.C
		18 W			120 °C
-50 °C to +60 °C	15.5 W	120 °C			
S...16/... and SI...26/...	-50 °C to 40 °C	8.5 W			T6
	-50 °C to 50 °C	5.5 W	N.C		
	-50 °C to 60 °C	4 W	75 °C		
	-50 °C to +40 °C	11 W	T5	T100 °C	N.C
		12.5 W			85 °C
	-50 °C to 50 °C	11 W			90 °C
	-50 °C to 60 °C	7.5 W			90 °C
	-50 °C to +40 °C	16.5 W	T4	T135 °C	100 °C
		19 W			110 °C
		22 W			115 °C
	-50 °C to 50 °C	19 W			120 °C
-50 °C to 60 °C	16 W	120 °C			

ROUTINE EXAMINATIONS AND TESTS

None.

(16) DESCRIPTIVE DOCUMENTS

The descriptive document quoted hereafter constitutes the technical documentation of the equipment, subject of this certificate.

- Certification file COELBO 8 rev.3 of 2005.03.31 (9 items) signed on 2005.03.31

(17) SPECIAL CONDITIONS FOR SAFE USE

For the apparatus category I M2 :

- During the installation, the user will take into consideration that the equipment only underwent a shock corresponding to an energy of a low risk.

The other conditions are stipulated in the instructions.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS

The respect of the Essential Health and Safety Requirements is ensured by:

- Conformity to the European standards EN 50 014, EN 50 018 and EN 50 281-1-1.
- All provisions adopted by the manufacturer and defined in the descriptive documents.

ADDITION

- (3) **INERIS 05ATEX0010X/01**
- (4) **ENCLOSURE TYPE S...I... or SO...I...**
- (5) **Made by COELBO**

(15) **PURPOSE OF THE ADDITION**

- Application of new standards EN 60079-0 : 2006, EN 60079-1 : 2004, EN 61241-0 : 2006 and EN 61241-1 : 2004.

PARAMETERS RELATING TO THE SAFETY

The parameters relating to the safety are unchanged.

MARKING

The marking is modified as follows:

COELBO

I - 20047 Brugherio (MI)

S...I... or SO...I...(*)

INERIS 05ATEX0010X

(Serial number)

(Year of construction)

 II 2 GD

 I M2

Ex d I/IIC T (**)

Ex tD A21 IP66 T(***)

T.amb : (****)

T.cable : (*****)

WARNINGS :

DO NOT OPEN WHEN ENERGIZED

- DO NOT OPEN WHEN AN EXPLOSIVE ATMOSPHERE MAY BE PRESENT

(*) The type is completed by number and letters corresponding to the execution variation, the different types are stipulated on the descriptive documents.

Marking may be carried out in the language of the country of use.

The protective system or equipment has also to carry the marking normally stipulated by its construction standards.

Type of enclosure	Ambient temperature range (****)	Maimum power dissipated	Explosive atmosphere		Cable temperature (*****)
			Gas (**)	Dust (***)	
S...14/... and Sl...24/...	-50°C to +40°C	6.5 W	T6	T85°C	N.C
		9 W			75°C
	-50°C to +50°C	4.5 W			N.C
		6.5 W			75°C
	-50°C to +60°C	4.5 W			80°C
	-50°C to +40°C	7.5 W			T5
		12.5 W	90°C		
	-50°C to +50°C	5 W	N.C		
		10 W	90°C		
	-50°C to +60°C	7.5 W	90°C		
	-50°C to +40°C	8 W	T4	T100°C	
		20 W			115°C
	-50°C to +50°C	5 W			N.C
		18 W			120°C
	-50°C to +60°C	15.5 W			120°C
	S...16/... and Sl...26/...	-50°C to 40°C			8.5 W
-50°C to 50°C		5.5 W	N.C		
-50°C to 60°C		4 W	75°C		
-50°C to +40°C		11 W	T5	T100°C	N.C
		12.5 W			85°C
-50°C to 50°C		11 W			90°C
-50°C to 60°C		7.5 W	90°C		
-50°C to +40°C		16.5 W	T4	T135°C	100°C
		19 W			110°C
		22 W			115°C
-50°C to 50°C		19 W			120°C
-50°C to 60°C		16 W			120°C

ROUTINE EXAMINATIONS AND TESTS

None.

(16) DESCRIPTIVE DOCUMENTS

The descriptive document quoted hereafter constitutes the technical documentation describing the modification of the equipment, subject of this present addition.

- Technical file n° COELBO 19 rev. 0 of 2007.12.04 signed on 2008.01.31

(17) SPECIAL CONDITIONS FOR SAFE USE

The special conditions are unchanged.

(18) ESSENTIAL SAFETY AND HEALTH REQUIREMENTS


The respect of the Essential Health and Safety Requirements is completed as follows:

- Conformity to the standards EN 60079-0, EN 60079-1, EN 61241-0 and EN 61241-1.
- All provisions adopted by the manufacturer and defined in the descriptive documents.

Verneuil-en-Halatte, 2008 02 08


S. MADGER

Project Manager at the ATEX
• Equipment Evaluation Laboratory


Director of the Certifying Body,
By delegation
T. HOUEIX
Certification Officer
Certification Division