IECEx Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION
IEC Certification Scheme for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.:	IECEx INE 14.0056U	Issue No: 0	Certificate history: Issue No. 0 (2014-12-12)
Status:	**Current**	Page 1 of 3	
Date of Issue:	**2014-12-12**		
Applicant:	**COELBO** Via S.Margherita, 83 I-20861 Brugherio (MB) **Italy**		
Electrical Apparatus:	**Enclosures series CCF... or CCV...**		
Optional accessory:			
Type of Protection:	**d and tb**		
Marking:	Ex d IIB or IIB+H2 or II(H2) Gb Ex tb IIIC Db IP65 or IP66		

Approved for issue on behalf of the IECEx Certification Body: Thierry HOUEIX

Position: Ex Certification Officer

Signature:
(for printed version)

Date: 2014-12-12

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting the Official IECEx Website.

Certificate issued by:

INERIS
Institut National de l'Environnement Industriel et des Risques
BP n2
Parc Technologique ALATA
F-60550 Verneuil-En-Halatte
France

INERIS

INERIS is accredited by COFRAC under number 5-0045 for certification of products and services (scope of accreditation is available on COFRAC website www.cofrac.fr)
The certification rules are available on the INERIS website www.ineris.fr.

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Manufacturer:	**COELBO** Via S.Margherita, 83 I-20861 Brugherio (MB) **Italy**	
Additional Manufacturing location(s):		

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEx Quality system requirements. This certificate is granted subject to the conditions as set out in IECEx Scheme Rules, IECEx 02 and Operational Documents as amended.

STANDARDS:

The electrical apparatus and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards:

IEC 60079-0 : 2011 Edition:6.0	Explosive atmospheres - Part 0: General requirements
IEC 60079-1 : 2007-04 Edition:6	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2008 Edition:1	Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure 't'

*This Certificate **does not** indicate compliance with electrical safety and performance requirements other than those expressly included in the Standards listed above.*

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in

Test Report:

FR/INE/ExTR14.0069/00

Quality Assessment Report:

IT/CES/QAR10.0009/04

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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

Range of flameproof enclosures made in Aluminium light alloy EN AB/AC 43100 AlSi10.
These enclosures can be fitted with the command and signalling units covered by the certificate IECEx INE 14.0023U and window specified in manufacturer's descriptive documentation.
These Ex components get the degree of protection IP66 or IP65 in accordance with IEC 60529.

SCHEDULE OF LIMITATIONS:

The enclosures have been assessed to be used for an operating temperature range from -50°C to +180°C.
The non transmission tests have been performed for a maximum ambient of +60°C.
For group IIB+H2, the minimum ambient temperatures are:

- -50°C for enclosures except 16, 16A and 16B versions;
- -40°C for enclosures 16, 16A and 16B versions.

The versions 16, 16A, 16B are allowed for Hydrogen, II(H2), with minimum ambient temperature of -50°C.
The width of the flameproof joints is greater than the values specified in the tables of IEC 60079-1 standard.
The enclosures have been tested on impact test at 7J on the metallic parts and 4J on the windows.
The content of the Ex component enclosure equipment may be placed in any arrangement provided that an area of at least 40% of each cross-sectional area remains free.

The cover and the body shall be fixed by stainless steel screws quality A2-70 or better.

CONDITIONS OF CERTIFICATION: NO

Annex:

IECEx INE 14.0056U-00_Annex.pdf

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Certificate No.: IECEx INE 14.0056U

Issue No.: 0

Annexe: IECEx INE 14.0056U-00_Annex.pdf

MARKING

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

- COELBO
- I-20861 Brugherio (MB)
- CCF... or CCV...(*)
- IECEx INE 14.0056U
- (Serial number)
- Ex d IIB or IIB+H_2 or II(H_2) Gb
- Ex tb IIIC Db IP66 or IP65

WARNINGS: EMPTY ENCLOSURE WITH Ex COMPONENT CERTIFICATE.

(*) Type is completed by numbers and /or letters corresponding to manufacturing variations.

ROUTINE EXAMINATIONS AND TESTS

Enclosures from 800 cm^3 to 4700 cm^3:

In accordance with clause 16.1 of the IEC 60079-1 standard, an overpressure test of a period comprised between 10 and 60 seconds under:

10.2 bar for -20°C.

13.4 bar for -50°C.

Enclosures from 4701 cm^3 to 17700 cm^3:

In accordance with clause 16.1 of the IEC 60079-1 standard, an overpressure test of a period comprised between 10 and 60 seconds under

11.6 bar for -20°C.

14.6 bar for -50°C.

Enclosures from 17701 cm^3 to 80500 cm^3:

In accordance with clause 16.1 of the IEC 60079-1 standard, an overpressure test of a period comprised between 10 and 60 seconds under

13.7 bar for -20°C.

16.7 bar for -50°C.

Enclosures from 80501 $cm^3$to 160600 cm^3:

In accordance with clause 16.1 of the IEC 60079-1 standard, an overpressure test of a period comprised between 10 and 60 seconds under

15.6 bar for -20°C.

17.7 bar for -40°C and -50°C