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 CES 14.0017U issue No.:0	Certificate history:
Status:	**Current**	
Date of Issue:	**2014-05-30**	Page 1 of 3

Applicant: **COR.TEM S.p.A.**
Via Aquileia, 10
I – 34070 Villesse (Gorizia)
Italy

Electrical Apparatus: **Empty enclosure, Series EJB-. and EJBX-.**
Optional accessory:

Type of Protection: **Flameproof enclosures 'd'; Dust ignition protection 't'**

Marking:
Ex d I Mb
Ex d IIB Gb or Ex d IIB+H2 Gb
Ex tb IIIC Db
IP66 or IP66/67

Approved for issue on behalf of the IECEx Certification Body: Mirko Balaz

Position: Head of IECEx CB

Signature:
(for printed version)

Date: 30-5-2014

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:

CESI
Centro Elettrotecnico
Sperimentale Italiano S.p.A.
Via Rubattino 54
20134 Milano
Italy

CESI S.p.A.
Testing & Certification Division
Business Area Certification
Il Responsabile
Fiorenzo Bregani

PAD B4015908 (1963614) - USO AZIENDALE

IECEx Certificate of Conformity

Certificate No.: IECEx CES 14.0017U

Date of Issue: **2014-05-30** Issue No.: **0**

Manufacturer: **COR.TEM S.p.A.**
Via Aquileia, 10
I – 34070 Villesse (Gorizia)
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:
IT/CES/ExTR14.0020/00

Quality Assessment Report:

IT/CES/QAR06.0002/08

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Schedule

EQUIPMENT:
Equipment and systems covered by this certificate are as follows:

The empty enclosures series EJB and EJBX are made in aluminium alloy or stainless steel. They are intended to be used for the mounting of electrical apparatus such as switching-, control-, regulating-, measuring and indicating devices. The cover and side walls of the enclosure may be provided with flameproof operating axes-, lamp caps and window. On the enclosures subject of this certificate, type M-0.. command and signalling operators as indicated in the separate component certificate, can be installed.
As regards the protection against combustible dusts, the EJB enclosures are made with sealing gasket placed between body and cover to guarantee degree of protection IP 66/67. If the command and signalling operators type M-. are mounted on the units subject of this certificate, the degree of protection of the enclosures will be IP 66.
Enclosed electrical equipment is a general arrangement of supply, switching and control devices with total power dissipation not exceeding the limits given in manufacturer documentation.

The empty enclosures series EJB-... and EJBX.-.. characteristics and a Schedule of Limitations are further described in the Annexe of this certificate.

CONDITIONS OF CERTIFICATION: NO

Annex: Cortem IECEx CES 14.0017U ANNEX - Empty enclosure EJB and EJBX.pdf

IECEx Certificate of Conformity

CESI

Prot: B4015908

Annex to certificate: **IECEx CES 14.0017U Issue No.:0** of 2014-05-30

Applicant: **COR.TEM S.p.A.**
Via Aquileia 10, I - 34070 Villesse (GO), Italy

Electrical Apparatus: **Empty enclosure, series EJB-.. and EJBX-..**

General product information:

The empty enclosures series EJB and EJBX are made in aluminium alloy or stainless steel. They are intended to be used for the mounting of electrical apparatus such as switching-, control-, regulating-, measuring and indicating devices. The light alloys enclosures, are allowed for Group II and Group III only, while the enclosure in stainless steel are suitable for all Group I, II and III.

The cover and side walls of the enclosure may be provided with flameproof operating axes-, lamp caps and window. On the enclosures subject of this certificate, type M-0.. command and signalling operators as indicated in the separate component certificate, can be installed.

As regards the protection against combustible dusts, the EJB enclosures are made with sealing gasket placed between body and cover to guarantee degree of protection IP 66/67. If the command and signalling operators type M-. are mounted on the EJB units, the degree of protection of the enclosures will be IP 66.

Enclosed electrical equipment is a general arrangement of supply, switching and control devices with total power dissipation not exceeding the limits given in manufacturer documentation.

Body and cover are made in aluminium alloy or stainless steel. A Glass window made in tempered glass is sealed with silicon resin red colour. Circular viewing windows and the rectangular glass window can be used.

Each enclosure is provided with internal and external earthing screw or bolt.

All fixing screws, external/internal earth screws are made in stainless steel class A2 or A4 - R 700N/mm^2.

Model Identification:

ALUMINIUM ALLOY ENCLOSURES	STAINLESS STEEL ENCLOSURES
AQS-1	-
EJB-01	-
EJB-1	**EJBX-1**
EJB-2	**EJBX-2**
EJB-3	**EJBX-3**
EJB-3B	**EJBX-3B**
EJB-4	**EJBX-4**
EJB-4B	**EJBX-4B**
EJB-45	**EJBX-45**
EJB-45B	**EJBX-45B**
EJB-48BA	-
EJB-5	**EJBX-5**
EJB-5B	**EJBX-5B**
EJB-503	-
EJB-55	**EJBX-55**
EJB-55B	**EJBX-55B**
EJB-55C	-
EJB-6	**EJBX-6**
EJB-6B	**EJBX-6B**
EJB-7	**EJBX-7**
EJB-7B	-

PAD B4015908 (1963615) - USO AZIENDALE

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CESI

Prot: B4015908

Annex to certificate: **IECEx CES 14.0017U Issue No.:0** of 2014-05-30

Applicant: **COR.TEM S.p.A.**
Via Aquileia 10, I - 34070 Villesse (GO), Italy

Electrical Apparatus: **Empty enclosure, series EJB-.. and EJBX-..**

Ambient temperature:

The empty enclosures shall be used in the ambient temperature range:

from -20°C to +60°C : all enclosures for group I (made in stainless steel only), group II and group III;

from -40°C to +60°C : all enclosures for group II and group III with polycarbonate pilot light;

from -50°C to +60°C : all enclosures for group II and group III without polycarbonate pilot light.

"Scheduled of Limitations" for Ex Components:

- The accessories used for cable entries and for closing unused openings shall be certified according to IEC 60079-0, IEC 60079-1 and IEC 60079-31. A minimum degree of protection IP66/IP67 shall be guaranteed according to IEC 60529 standard.

- The empty enclosures shall be used in the ambient temperature range:
  - from -20°C to +60°C : all versions of enclosures for group I (made in stainless steel only), group II and group III;
  - from -40°C to +60°C : all versions of enclosures for group II and group III with polycarbonate pilot light;
  - from -50°C to +60°C : all versions of enclosures for group II and group III without polycarbonate pilot light;

- Maximum service temperature of the empty enclosures:
  - +100 °C For all versions of empty enclosures without polycarbonate pilot light (when polycarbonate pilot lights are installed on the enclosure the maximum service temperature is +80°C).
  - +150 °C For empty enclosures of group II and III, without control-signal operators and without window.

- The service temperature range of the components installed on the enclosures shall be take into account.

- According to IEC 60079-1 annex D, the content of the Ex component enclosure equipment may be placed in any arrangement, provided that:
  - for group I an area of at least 20% of each cross-sectional area remains free;
  - for group IIB+H_2 an area of at least 40% of each cross-sectional area remains free.

Warning label:

"Empty enclosure with component certificate"

"Use screws of quality A2-70 with tensile strength of at least 700 N/mm^2."