



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 14.0012U issue No.: 1 Certificate history:
Issue No. 1 (2016-3-15)
Issue No. 0 (2014-4-14)

Status: **Current**

Date of Issue: **2016-03-15** Page 1 of 4

Applicant: **CORTEM S.p.A.**
Via Aquileia, 10
I - 34070 Villesse (Gorizia)
Italy

Equipment: **Empty enclosure, series GUB-.. and CCA-..**
Optional accessory:

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

Marking: **Ex db I Mb
Ex db IIC Gb
Ex tb IIIC Db
IP66**


Approved for issue on behalf of the IECEx
Certification Body:

Mirko Balaz

Position:

Head of IECEx CB

Signature:
(for printed version)


15-3-2016

Date:

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

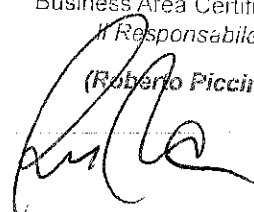
CESI S.p.A.

Testing & Certification Division

Business Area Certification

Responsabile

(Roberto Piccin)





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Manufacturer: **CORTEM 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 : 2014-06 Edition: 7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-31 : 2013 Edition: 2	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/ExTR15.0026/00

Quality Assessment Report:
IT/CES/QAR06.0002/09



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The empty enclosures series GUB-... and CCA-..., made in aluminium alloy or stainless steel are in Ex db I, Ex db IIC and Ex tb IIIC execution. All versions of empty enclosures for group I are made in stainless steel only.

They can be equipped with operators mounted on the walls or on the cover (for the version CCAI-C..), with window and extension.

The GUB-... and CCA-... enclosures can be equipped with command and signalling operators series M-0., certified as components with separate IECEx certificate.

The covers of CCA-.C and CCAI.... versions have a cylindrical joint and are fixed with stainless steel screw. The glass in the versions with window is made in tempered glass and sealed with silicon resin. Between body and cover a silicon gasket can be used to guarantee the protection degree IP66.

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

CONDITIONS OF CERTIFICATION: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above):

Variation 1

- General revision and updating of manufacturer documentation in function of last edition of applicable Standards.
- Consolidated CoC variation:
 - a) With upgrade drawings GUB and CCA series (including the holes on box bottom)
 - d) With extension at new minimum ambient temperature of -60°C.



Prot: B6007587

Annex to certificate:

IECEX Certificate of Conformity

CESI

Applicant:

IECEX CES 14.0012U Issue No.:1 of 2016-03-15

CORTEM S.p.A.

Via Aquileia 10, I - 34070 Villesse (GO), Italy

Electrical Apparatus:

Empty enclosures, series GUB-.. and CCA-..

General product information:

The empty enclosures series **GUB-...** and **CCA..** have the body and the cover made in aluminium alloy or stainless steel and are in Ex db I, Ex db IIC and Ex tb IIIC execution. All versions of empty enclosures for group I are made in stainless steel only. They can be equipped with command and signalling operators series M-0.. certified as components with separate certificate, mounted on the walls or on the cover (for the version CCAI-C..), with window on the cover and with extension for the cover.

The covers of **CCA-..C** and **CCAI..** versions have a cylindrical joint and are fixed with quality A2-70 stainless steel screws.

A transparent window made in tempered glass is sealed with silicon resin. Gaskets between cover and body and for all other accessories are made in silicon to guarantee the protection degree IP66.

The walls of the enclosures can be drilled and threaded with maximum size and maximum number of holes as specified in the manufacturer documents annexed. Each enclosure is provided with internal and external earthing screw or bolt

Model Identification:

Aluminium alloy enclosures			Aluminium alloy enclosures with glass window	
GUB series	CCA series		GUB series	CCA series
GUB	-	-	-	-
GUB-S	-	-	-	-
GUB-0	CCA-0E	CCA-0C	GUB-0V	CCA-0EH
GUB-01	CCA-01E	CCA-01C	GUB-01V	CCA-01EH
-	CCA-01PF	-	-	-
GUB-02	CCA-02E	CCA-02C	GUB-02V	CCA-02EH
GUB-03	CCA-03E	CCA-03C	GUB-03V	CCA-03EH
GUB-04	CCA-04E	CCA-04C	GUB-04V	CCA-04EH
GUB-05	-	-	-	-

Stainless steel enclosures				Stainless steel enclosures with glass window	
GUB series	CCA series			CCAI series	CCAIF series
GUBSS	-	-	-	-	-
GUB-SSS	-	-	-	-	-
GUB-0SS	CCA-0ESS	CCAI2020	CCAIF-2020	CCAI2020H	CCAIF-2020H
GUB-01SS	CCA-01ESS	CCAI3020	CCAIF-3020	CCAI3020H	CCAIF-3020H
GUB-02SS	CCA-02ESS	CCAI3030	-	CCAI3030H	-
GUB-03SS	CCA-03ESS	CCAI4030	CCAIF-4030	CCAI4030H	CCAIF-4030H
GUB-04SS	CCA-04ESS	-	-	-	-
GUB-05SS	-	-	-	-	-

PAD B6007587 (2275235) - USO AZIENDALE



Prot: B6007587

Annex to certificate:

Applicant:

Electrical Apparatus:

IECEX Certificate of Conformity

CESI

IECEX CES 14.0012U Issue No.:1 of 2016-03-15

CORTEM S.p.A.

Via Aquileia 10, I - 34070 Villesse (GO), Italy

Empty enclosures, series GUB-.. and CCA-..

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 IIIC with polycarbonate pilot light;

from -60°C to +60°C : all enclosures for Group II and Group IIIC without polycarbonate pilot light.

from -60°C to +150°C : all enclosures for Group II and Group IIIC empty enclosures with threaded joint cover-enclosure coupling only, without glass windows sealed on the cover and without control-signal operators.

Ingress protection:

IP66

"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 shall be guaranteed according to IEC 60529 standard.
- The empty enclosures shall be used in the ambient temperature range:
 - from -20°C up to +60°C: all versions of empty enclosures for group I (made in stainless steel only), group II and group III;
 - from -40°C up to +60°C: all versions of empty enclosures for group II and group III with polycarbonate pilot lights;
 - from -60°C up to +60°C all versions of empty enclosures for group II and group III without polycarbonate pilot lights.
 - from -60°C up to +150°C: all versions of empty enclosures for group II and group III with threaded joint cover-enclosure coupling only and without glass windows sealed on the cover and without control-signal operators.
- Maximum service temperature of the empty enclosures:
 - +100 °C for all versions of empty enclosures.
 - +150 °C for empty enclosures of group II and III, without control-signal operators and windows.
- The service temperature range of the components installed on the enclosures shall be taking 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 groups IIC 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/mm²." (for covers with cylindrical joint CCA-..C and CCAI.. Models).