



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX CML 21.0104X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: 2022-06-10

Applicant: **CORTEM S.p.A**
Via Aquileia 10
34070 Villesse
Gorizia
Italy

Equipment: **CMD-... Command, Control and Signalling Units**

Optional accessory:

Type of Protection: **Flameproof Ex "d", Increased Safety "e", Intrinsic Safety "i" Encapsulation "m" and Dust Protection "t"**

Marking:

Ex db eb IIC T... Gb
Ex tb IIIC T...°C Db

Ex eb IIC T... Gb
Ex tb IIIC T...°C Db

Ex ia IIC T... Gb
Ex ia tb IIIC T...°C Db

Ex eb ia IIC T... Gb
Ex ia tb IIIC T...°C Db

Ex db eb ib mb IIC T... Gb
Ex ib tb IIIC T...°C Db

Ambient ranges:

-40°C to +35°C (T6/T60°C)

-40°C to +37°C (T6/T62°C)

-40°C to +50°C (T5/T75°C)

-40°C to +52°C (T5/T77°C)

-40°C to +60°C (T4/T85°C)

The marking is dependent on the
previously certified components
installed as defined in the
manufacturer's documents.

Approved for issue on behalf of the IECEx
Certification Body:

L A Brisk

Position:

Certification Officer

Signature:
(for printed version)

Date:
(for printed version)

2022-06-10

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 www.iecex.com or use of this QR Code.



Certificate issued by:

Eurofins E&E CML Limited
Unit 1, Newport Business Park
New Port Road
Ellesmere Port, CH65 4LZ
United Kingdom





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34070 Villesse
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Manufacturing
locations: **CORTEM S.p.A**
Via Aquileia 10
34070 Villesse
Gorizia
Italy

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 equipment 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 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-1:2014-06](#) Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

[IEC 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

[IEC 60079-18:2017](#) Explosive atmospheres - Part 18: Protection by encapsulation "m"
Edition:4.1

[IEC 60079-31:2022-01](#) Explosive atmospheres – Part 31: Equipment dust ignition protection by enclosure "t"
Edition:3.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with 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:

[GB/CML/ExTR21.0153/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/16](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The CMD-... Command, Control and Signalling Units are increased safety control stations constructed from polyester resin.

Refer to certificate annex for full description.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to annex for specific conditions of use

Annex:

[IECEX CML 21.0104X Iss. 0 Certificate Annex.pdf](#)

Annexe to: IECEx CML 21.0104X Issue 0
Applicant: Cortem S.p.A
Apparatus: CMD-... Command, Control and Signalling Units

Description

The CMD-... Command, Control and Signalling Units are increased safety control stations constructed from polyester resin. The rectangular enclosure consists of a base and cover secured with four fixings, one in each corner. Internally, a fixing rail intended for separately certified terminals is provided along with an earthing screw.

The enclosure is available in three lengths. The longest enclosure (181 mm x 86 mm x 80.5 mm) allowing for three possible entries through the cover and two through the side of the base. The middle-sized enclosure (135 mm x 86 mm x 80.5 mm) allows for two possible entries through the cover and one through the side of the base. The smallest enclosure 90 mm x 86 mm x 80.5 mm) allows for one possible entry through the cover only.

The CMD-... Command, Control and Signalling Units may be fitted with various pre-approved safety components as detailed below:

Component	Certificate Number
M-0603 Simple Push button	CESI 09ATEX075U IECEX CES 11.0029U
M-0604 Rotary Selector	CESI 09ATEX075U IECEX CES 11.0029U
M-0605 Emergency push button	CESI 09ATEX075U IECEX CES 11.0029U
M-0612 Multi-LED Pilot Light	CESI 00 ATEX 060U IECEX CES 11.0030U
M-0530 Contact No	CESI 09ATEX016U IECEX CES 11.0031U
M-0531 Contact NC	CESI 09ATEX016U IECEX CES 11.0031U
B-0140 Ammeter or Voltmeter	CESI 04ATEX 128U IECEX CES 12.0022U
CZ4000 Explosion proof operation heads	Sira 15ATEX3333U IECEX CQM 15.0035U
CZ0201 Explosion proof switch module	Presafe 16ATEX 9096U IECEX CQM 08.0005U



Certificate Annex IECEx
Version: 9.0 Approval: Approved

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Component	Certificate Number
CZ0202 Explosion proof signal lamp module	Presafe 16ATEX 8565U IECEX CQM 08.0006U
CZ0203 Explosion Proof Potentiometer module	Presafe 16ATEX9214U IECEX CQM 11.0033U
CZ1208 Explosion proof (flash) buzzer	EPT 16 ATEX 2404U IECEX EUT 16.0011U
CZ0205 Explosion proof voltmeter, ammeter module	Sira 14ATEX3169U IECEX CQM 14.0034U
B-0305/B-0306 Explosion proof fuses	CML 16ATEX4300X IECEX CSA 16.0042X
HL0101, HL0101A, HL01012 Explosion proof switch module	CNEX 17ATEX 0007U IECEX CNEX 17.0015U
Explosion-proof ammeters – Type: HL0109 Series	TPS 19 ATEX 003086 0008 U IECEX TPS 19.0011U
UT, AGK Terminals	KEMA 04ATEX2048U IECEX KEM 06.0027U
G5/...-EX Terminals	PTB 06ATEX1034U IECEX 06.0043U
AKZ, AKE & AKZ4, WEMIND Terminals	TUV 18ATEX8221U IECEX TUR 18.0024U
SAKK Terminals	TUV 18ATEX8208U IECEX TUR 18.0018U

Conditions of Manufacture

The following are conditions of manufacture:

- i. Where the product incorporates certified parts or safety critical components the manufacturer shall ensure that any changes to those parts or components do not affect the compliance of the certified product that is the subject of this certificate.
- ii. Information shall be provided to the end-user which determines the supply ratings of each part installed within the enclosure, as well as the power dissipation limit defined for the enclosure.
- iii. The combined power of the components within the device shall never exceed 5.8 W for the CMD-1, 8.2 W for the CMD-2 and 10.6 W for the CMD-3.



- iv. The manufacturer shall mark the ambient temperature rating on the equipment to ensure that the items fitted within remain within their minimum and maximum service/ambient temperatures, as stated in the schedule of limitations for each of these previously certified parts.
- v. The user instructions for each previously certified part fitted into the enclosure shall be provided with the equipment to the end-user.

Specific Conditions of Use

The following relate to the installation and/or safe use of the equipment/component:

- i. Wipe only with a damp cloth, potential charging hazard

Components covered by Ex Certificates issued to older editions of Standards

Certificate number	Standards (incl Ed)	Assessment result
IECEX CES 09.0009U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 09.0010U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 11.0007U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 11.0009U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 11.0008U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 11.0029U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 11.0030U	IEC 60079-0:2011 Ed. 6	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR

Certificate number	Standards (incl Ed)	Assessment result
IECEX CES 11.0031U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CES 12.0022U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CQM 08.0005U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CQM 08.0006U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CQM 11.0033U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX EUT 16.0011U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CQM 14.0034U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CML 19.0170U	IEC 60079-0:2011 Ed. 6	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CNEX 17.0015U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX CQM 15.0035U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR
IECEX TPS 19.0011U	IEC 60079-0:2011 Ed. 6 IEC 60079-7:2015 Ed. 5	No applicable technical differences Technical differences evaluated and found satisfactory. For detail see ExTR