



IECEX Certificate of Conformity

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INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

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

Certificate No.: **IECEX FIDI 25.0015X** Page 1 of 3 [Certificate history:](#)

Status: **Current** Issue No: 0

Date of Issue: **2025-10-27**

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

Equipment: **Distribution and Control Panels type: DCP-... or QFM-...**

Optional accessory:

Type of Protection: **Flameproof enclosure 'db'; Increased safety 'eb'; Protection by enclosure 'tb'; Intrinsic safety 'ia'**

Marking: **Ex db eb [ia Ga] IIB T6...T3 Gb**
Ex db eb [ia Ga] IIB+H2 T6...T3 Gb
Ex tb [ia Da] IIIC T85°C...T140°C Db

Increase safety marking 'eb' and/or associated apparatus marking additional to 'db' / 'tb' will be specified depending to the product version

Approved for issue on behalf of the IECEx
Certification Body:

Marino Kelava



Position:

Certification Signatory

Signature:
(for printed version)

Date:
(for printed version)

2025-10-27

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:

Fiditas Ltd
Slavka Tomerlina 44
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Croatia



Fiditas
explosion safety solutions



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

Manufacturing
locations:

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 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 60079-31:2022 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:

[HR/FIDI/ExTR25.0018/00](#)

Quality Assessment Report:

[IT/CES/QAR06.0002/19](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The Distribution and Control Panels series DCP or QFM are assembly of two or three boxes already IECEx certified, connected by two connectors used for cable entry between the boxes. The connectors are manufactured in two versions:

- with cylindrical joints between connector and box wall for gas group IIB,
- with threaded joints between connector and box wall for gas group IIB+H2.

The certificate number of the individual boxes are as follows:

- EJB, EJBX command control and signalling units IECEx FIDI 25.0004X,
- EJB, EJBX command control and signalling units IECEx CES 16.0012X,
- EJB, EJBX command control and interface units IECEx CES 16.0014X.

Following sizes of EJB enclosures are allowed to be used in this units:

- Aluminium alloy: EJB-45; EJB-45B; EJB-5; EJB-5B; EJB-55 and EJB-55B
- Stainless steel: EJBX-45; EJBX-45B; EJBX-5; EJBX-5B; EJBX-55B and EJBX-55

In addition, sealing fittings or sealing bushings can be used for cable entries and for connection of more command, control and signal units.

Full details in Annex of this certificate.

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. 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 IP66/67 shall be guaranteed according to IEC 60529 standard.
2. The Distribution and Control Panels shall be used in the following ambient temperature range:
 - from -40°C up to +70°C: all panel versions for Group IIB, Group IIB+H2 and Group IIIC with two enclosures in an assembly,
 - from -20°C up to +70°C: all versions of panels for Group IIB and Group IIIC with three enclosures in an assembly.
3. The operating temperature limits of Ex accessories used for connection of more command, control and signal unit EJB series, shall be duly observed.
4. The minimum distance between flameproof flanged joint of the enclosure and external obstacle shall be:
 - 20 mm for Group IIB execution:
 - 30 mm for Group IIB+H2.
5. For radio application the antenna shall be installed in safe area, or it shall respect one of the specific type of protection indicated in IEC 60079-0 and installed according to IEC 60079-14.
6. For repair of flameproof joints contact the manufacturer.
7. When socket Series SPYN is installed:
 - The socket is intended to be coupled to plug Series SPYN (manufactured by Cortem),
 - The cap of the socket shall be properly installed when plug is not mated with the socket,
 - Flameproof joints on the socket are not intended to be repaired.

Annex:

[IECEX FIDI 25.0015X CORTEM spojena Annex.pdf](#)

Continued from original certificate

The accessories used for cable entries, for closing unused openings and thread adaptors, shall be certified according to the standards IEC 60079-0, IEC 60079-1, IEC 60079-31. A minimum degree of protection IP66 or IP66/67 shall be guaranteed according to IEC 60529 standard.

Electrical socket type PYNC (IECEX IMQ 22.0010U) with type of protection Ex db eb IIC Gb; Ex tb IIIC Db, can be installed on the wall of the enclosures.

Electrical characteristics:

Rated voltage:	12 - 750 V DC / 24 - 1000 V AC
Nominal frequency:	0/50/60 Hz
Max. current:	up to 1000 A
Ambient temperature:	-40°C up to +70°C or -20°C up to +70°C

For complete electrical characteristics, refers to IECEX certificates of individual box.

Type marking code:

QFM-

DCP-

Code of the series

blank	boxes made in aluminium alloy
X	boxes made in stainless steel
2	for No.2 EJB boxes (Gas group IIB)
3	for No.3 EJB boxes (Gas group IIB)
H2	for No.2 EJB boxes (Gas group IIB+H2)

Caution and Warning labels:

"Use screws of quality A2-70 according to UNI 7323 with tensile strength of at least 700 N/mm²"

"Warning - do not open when energized".

In case of boxes with capacitors: "After de-energizing, wait 10 minutes before opening"

For equipment with temperature class T5: "Use cables suitable for temperature of 90°C"

For equipment with temperature class T4 and T3: "Use cables suitable for temperature of 100°C".

For enclosures with batteries or cells:

"Warning – Do not open when an explosive atmosphere is present".

For products complete with external coating in non-metallic material with a thickness > 0,2 mm for IIB+H2 execution or > 2 mm for IIB execution:

"Warning – Potential electrostatic charging hazard – for cleaning use only a damp cloth"

In the case of socket installation:

"After de-energizing, delay 30 minutes before opening"

"Do not open when an explosive atmosphere is present"