



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 CML 19.0087X

Issue No: 0

Certificate history:

[Issue No. 0 \(2019-08-30\)](#)

Status: **Current**

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Date of Issue: **2019-08-30**

Applicant: **Delvalle Global Solutions, S.L.U.**
Paso El Prao, 6. 01320, Oyón. Alava
Spain

Equipment: **Explosion-proof Controllers**

Optional accessory:

Type of Protection: **Flameproof "db", Increased Safety "eb", Intrinsic Safety "ia/ib", Encapsulation "mb", Dust Ignition "tb"**

Marking:

Ex db eb ia/ib mb IIC T6 Gb
Ex db eb ia/ib mb IIC T5 Gb
Ex tb IIIC T80°C Db
Ex tb IIIC T95°C Db

Ta= -40°C to +55°C

Note: Protection concepts, temperature class, maximum surface temperature and ambient temperature depends on the components used. Refer to description.

Approved for issue on behalf of the IECEx
Certification Body:

R C Marshall

Position:

Certification Officer

Signature:
(for printed version)

Date:

2019-08-30

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:

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





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Manufacturer: **Delvalle Global Solutions, S.L.U.**
Paso El Prao, 6. 01320, Oyón. Alava
Spain

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 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 : 2017 Edition:7.0	Explosive atmospheres - Part 0: Equipment - General requirements
IEC 60079-1 : 2014-06 Edition:7.0	Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
IEC 60079-11 : 2011 Edition:6.0	Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
IEC 60079-18 : 2017 Edition:4.1	Explosive atmospheres - Part 18: Protection by encapsulation "m"
IEC 60079-31 : 2013 Edition:2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2017 Edition:5.1	Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

*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:

[GB/CML/ExTR19.0130/00](#)

Quality Assessment Report:

[ES/LOM/QAR16.0002/02](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The Explosion-proof Controller is used for the control of processes and operations in hazardous locations zone 1/21 and/or Zone 2/22. The enclosure is manufactured from plastic with type of protection "eb" and "tb" with each enclosure comprising a base and cover secured by four bolts.

Refer to Annex for full description and conditions of manufacture.

SPECIFIC CONDITIONS OF USE: YES as shown below:

Refer to Annex for specific conditions of use.

Annex:

[IECEx CML 19.0087X Iss. 0 Certificate Annex.pdf](#)

Annexe to: IECEx CML 19.0087X Issue 0
Applicant: Delvalle Global Solutions, S.L.U.
Apparatus: Explosion-proof Controller



Description

The Explosion-proof Controller is used for the control of processes and operations in hazardous locations zone 1/21 and/or Zone 2/22. The enclosure is manufactured from plastic with type of protection “eb” and “tb” with each enclosure comprising a base and cover secured by four bolts.

There are eight types of enclosure with different dimensions.

The may be connected by coupling nuts to form an integrity structure.

Depending on the devices fitted to the enclosure the Explosion-proof Controller assembly may achieve up ingress protection ratings of IP66/67/64.

The controllers have a maximum rated voltage of 500V with a maximum current of 16A; the rated current is subject to the Ex components utilised.

CONTREXGRP/.. Model	Dimension		
	Length (mm)	Width (mm)	Height (mm)
CONTREXGRP/1	95	86	76
CONTREXGRP/2	135	86	76
CONTREXGRP/3	175	86	76
CONTREXGRP/4	135	100	76
CONTREXGRP/5	175	100	76
CONTREXGRP/51	95	86	76
CONTREXGRP/6	215	100	76
CONTREXGRP/9	160	96	76





The Ex components listed below may be installed inside or on the cover of the CZ0240/** series.

Component Details	Code	Temperature Range
Switch BLQLED□/□/□/ L	Ex db eb IIC Gb	-40°C to +90°C
Switch BLQLED□/□/□/ H	Ex db eb IIC Gb	-55°C to +90°C
Signal Lamp BLQ□/□/□/ L	Ex db eb IIC Gb Ex ia IIC Ga	-40°C to +90°C
Signal Lamp BLQ□/□/□/ H	Ex db eb IIC Gb Ex ia IIC Ga	-55°C to +90°C
Potentiometer CZ0203-□□□/□ L	Ex db eb IIC Gb	-40°C to +90°C
Potentiometer CZ0203-□□□/□ H	Ex db eb IIC Gb	-55°C to +90°C
Voltmeter and mA Ammeter CZ0205	Ex e mb IIC Gb	-40°C to +95°C
Ammeter CZ0205	Ex e IIC Gb	-40°C to +95°C
Lamp/Button BLQPBL LED□/□/□/□/ L	Ex db eb IIC Gb	-40°C to +90°C
Lamp/Button BLQPBL LED□/□/□/□/ H	Ex db eb IIC Gb	-55°C to +90°C
Lamp/Button BLQPBL LED□/□/□/□/ 0/H	Ex ia IIC Ga	-55°C to +90°C
Fuses CZ0804	Ex eb mb IIC Gb	-40°C to +55°C
Operation Heads	Ex e IIC Gb Ex e IIIC Dc	-40°C to +65°C
Terminal Block UK 1.5N, 5N, 3N, 5N	Ex eb IIC	-60°C to +110°C

The built-in and add-on components are of a technical standard that complies with the specifications listed in this certificate they have suitable operating conditions and have suitable EU Type Examination Certificates/IECEX Certificates.

Conditions of Manufacture

The following conditions are required of the manufacturing process for compliance with the certification.

- 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. The manufacturer shall carry out a dielectric strength test in accordance with, EN/IEC 60079-7 clause 6.1 on all pre-wired junction boxes, considering the rated voltage of each unit.
- iii. The total dissipated power of the enclosure shall be calculated in accordance with EN/IEC 60079-7:2015 Annex E.2 and shall not exceed the maximum power rating defined in instruction manual.
- iv. The controllers covered by this certificate incorporate previously certified devices. It is therefore the responsibility of the manufacturer to continually monitor the status of the certification associated with these devices, and the manufacturer shall inform CML of any modification of the devices that may impinge upon the explosion safety.
- v. The manufacturer shall modify the marking to include additional protection concept letters and to select the gas group, ambient temperature and ingress protection rating that are appropriate to the combination of devices that are fitted.
- vi. The maximum ambient, temperature class and assigned maximum surface temperature of the equipment is dependent on the model and maximum power dissipation. Hence, the maximum ambient, temperature class and assigned maximum surface temperature shall be marked in accordance with the 'Maximum Power Dissipation' table in this certificate.
- vii. The marked ambient temperature range assigned to the equipment shall not exceed the ambient/service temperature range of any previously certified parts installed. All previously certified parts shall be used within their defined maximum ambient or service temperature limits.
- viii. When fitted with intrinsically safe devices and non-intrinsically safe devices the controllers shall have suitable wiring/partitions/separation distances.

Specific Conditions of Use (Special Conditions)

The following conditions relate to safe installation and/or use of the equipment.

- i. For type of protection "ia" the supply must be from a suitably certified and rated safety barrier.