



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 SIR 09.0069X** issue No.:1

Status: **Current**

Certificate history:
Issue No. 1 (2014-12-22)
Issue No. 0 (2009-9-2)

Date of Issue: **2014-12-22** Page 1 of 4

Applicant: **CMP Products Limited**
Glasshouse Street
St. Peters
Newcastle-upon-Tyne
Tyne & Wear NE6 1BE
United Kingdom

Electrical Apparatus: **TMC2X Range of Cable Glands**
Optional accessory:

Type of Protection: **Flameproof or Increased Safety and Dust**

Marking: Ex d IIC Gb
Ex e IIC Gb
Ex ta IIIC Da
Note: The service temperature range of the equipment is -60°C to +85°C.

Approved for issue on behalf of the IECEx
Certification Body:

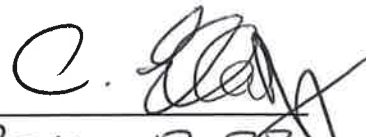
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Position:

Deputy Certification Manager

Signature:
(for printed version)

Date:


2014-12-22

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](http://www.iecex.com).

Certificate issued by:

SIRA Certification Service
Rake Lane
Eccleston
Chester
CH4 9JN
United Kingdom

sira
CERTIFICATION



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Manufacturer: **CMP Products Limited**
Glasshouse Street
St. Peters
Newcastle-upon-Tyne
Tyne & Wear NE6 1BE
United Kingdom

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 : 2013 Edition: 2	Explosive atmospheres - Part 31: Equipment dust ignition protection by enclosure "t"
IEC 60079-7 : 2006-07 Edition: 4	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/SIR/ExTR09.0131/00](#)

[GB/SIR/ExTR14.0306/00](#)

Quality Assessment Report:

[GB/SIR/QAR07.0009/00](#)



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Schedule

EQUIPMENT:

Equipment and systems covered by this certificate are as follows:

The TMC2X Range of Cable Glands are designed to be threaded into suitably certified enclosures to permit the entry of metal clad (MC) cables. Each gland comprises a nut housing an elastomeric sealing ring and clamping spring assembly. The assembly is compressed by the threaded rear nut.

TMC2X types are additionally provided with a compound seal and tube arrangement effectively sealing the cable cores.

The metallic parts may be manufactured in the following materials:

Brass CuZn39Pb Aluminium LM25 or 6082 T6 Stainless steel grade 316 Mild steel grade 220M07

See Annexe for additional information.

CONDITIONS OF CERTIFICATION: YES as shown below:

1. The glands shall only be fitted to enclosures where the temperature, at the point of mounting, is below 85°C.
2. The cable shall be effectively clamped as close as possible to the gland.
3. When used for 'Ex e' or 'Ex ta' applications the user shall provide a suitable interface seal between the gland and associated enclosure to maintain the level of ingress protection of the enclosure to which they are fitted.
4. The TMC2X cable glands comprise of a flameproof labyrinth joint having length and gap dimensions which are other than those specified in IEC 60079-1 and are not intended to be repaired in service.



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

Issue 1 – this Issue introduced the following change:	
1.	Additional schedule drawings for the existing TMC2X range of cable glands were introduced; these drawings clarify the construction of the glands.
2.	The introduction of two sizes of glands that have an alternative construction, these glands have the following designations: * TMC2X-M50**1621RA*/S * TMC2X-M63**233/2001RA*
3.	The maximum flamepath gap of the labyrinth joint was increased from 0.08 mm to 0.15 mm; a condition was introduced to recognise that the lengths and gaps are other than those specified in IEC 60079-1.
4.	The gland title was changed to reflect the maximum outer sheath diameter in inches that each size will accommodate (typical reference TMC2X**075, where ** defines the entry thread size). The table in the description was amended to review the listed information including the recognition of the new gland titles and sizes.
5.	Following appropriate assessment to demonstrate compliance with the requirements of the latest IEC 60079 series of standards, the documents previously listed in the certificate, IEC 60079-0:2007 Ed 5 and IEC 61241-1:2004 Ed 1, were replaced by IEC 60079-0:2011 Ed 6 and IEC 60079-31:2013 Ed 2 respectively, the marking being updated accordingly.

Annexe to: IECEx SIR 09.0069X Issue 1
Applicant: CMP Products Ltd
Apparatus: TMC2X Range of Cable Glands



Gland / seal sizes are proportional to the cable outer diameter as the table below:

Gland title		Range take (inches)		Max. no. of cores	Typical entry thread size	
Original (Issue 0)	Current (Issue 1)	Min.	Max.		NPT	Metric
TMC2X050S	TMC2X**075	0.500	0.750	11	½"	M20 x 1.5
TMC2X050	TMC2X**099	0.690	0.990	11	¾"	M20 x 1.5
TMC2X075	TMC2X**118	0.870	1.180	21	1"	M25 x 1.5
TMC2X100	TMC2X**137	1.020	1.370	38	1¼"	M32 x 1.5
TMC2X125S	TMC2X**162	1.300	1.620	59	1½"	M40 x 1.5
TMC2X125	TMC2X**190	1.570	1.900	59	1½"	M40 x 1.5
TMC2X150S	TMC2X**200	1.650	2.000	89	2"	M50 x 1.5
TMC2X150	TMC2X**233	1.900	2.320	89	2"	M50 x 1.5
TMC2X200S	TMC2X**233	1.900	2.320	115	2½"	M63 x 1.5
TMC2X200	TMC2X**272	2.270	2.710	115	2½"	M63 x 1.5
TMC2X250	TMC2X**272	2.270	2.710	140	3"	M75 x 1.5
TMC2X300	TMC2X**325	2.610	3.250	140	3½"	M90 x 1.5
TMC2X350	TMC2X**376	3.160	3.760	140	4"	M100 x 1.5
TMC2X400	TMC2X**425	3.700	4.250	200	4"	M115 x 1.5
N/A	TMC2X-M50**1621RA*/S	1.300	1.620	59	N/A	M50 x 1.5
N/A	TMC2X-M63**233/2001RA*	1.650	2.000	89	N/A	M63 x 1.5

Available thread types:

Metric: ISO 965-1, ISO965-3 medium fit (6g) for external threads
ET(Conduit): BS 31:1940 (1979), Table A.
PG: DIN 40430:1971.
BSPP: BS 2779:1973 class A full form for external threads.
BSPT: BS 21:1985 standard threads only as clause 5.4, gauging to clause 5.2, system A. ISO7/1:1982, gauging to ISO 7/2 clause 6.3 for external threads.
NPT: ANSI/ASME B1.20.1-1983 gauging to clause 8.1 for external threads.
NPSM: ANSI/ASME B1.20.1-1983 gauging to clause 9 for external threads.