EU Type Examination Certificate CML 18ATEX1336X Issue 0

1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU

2 Equipment **Type TMC2X Range of Cable Glands**

3 Manufacturer **CMP Products Ltd**

4 Address **Unit 36 Nelson Way,**
Nelson Park East,
Cramlington, NE23 1WH,
United Kingdom

5 The equipment is specified in the description of this certificate and the documents to which it refers.

6 CML B.V. , Chamber of Commerce No 6738671, Hoogoorddreef 15, Amsterdam, 1101 BA, The Netherlands, Notified Body Number 2776, in accordance with Article 17 of Directive 2014/34/EU of the European Parliament and of the Council, dated 26 February 2014, certifies that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment intended for use in potentially explosive atmospheres given in Annex II to the Directive.

The examination and test results are recorded in the confidential reports listed in Section 12.

7 If an 'X' suffix appears after the certificate number, it indicates that the equipment is subject to conditions of safe use (affecting correct installation or safe use). These are specified in Section 14.

8 This EU Type Examination certificate relates only to the design and construction of the specified equipment or component. Further requirements of Directive 2014/34/EU Article 13 apply to the manufacture of the equipment or component and are separately certified.

9 Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the confidential report, has been demonstrated through compliance with the following documents:

EN 60079-0:2018 EN 60079-1:2014 EN 60079-7:2015+A1:2018

EN 60079-31:2014

10 The equipment shall be marked with the following:

Ex II 2G

Ex db IIC Gb
Ex eb IIC Gb

Ta= -60°C to +85°C

Ex II 1D

Ex ta IIIC Da

R C Marshall
Certification Officer

This certificate shall only be copied in its entirety and without change
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11 Description

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 threaded front item and a nut housing an elastomeric sealing ring and clamping spring assembly. The assembly is compressed by the rear threaded rear nut.

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

Materials of manufacture:

The standard material supplied is:

Aluminium	BS EN 573-3:2013 / BS EN 755-1-3:2008 Grade 6082 T6, 6262 T6 / BS EN 1676:2010 Grade LM25 TF

Alternate materials are:

Stainless steel	BS EN 10088-3:2014 Grades 316S11, 316S13, 316S31, 316S33, 316L
Mild steel	BS EN 10277-2:2008 Grades 220M07, 230M07 (EN1A) / 220M07Pb, 230M07Pb (EN1APb)
Brass	BS EN 12164:2011/ BS EN 12168:2011 Grade CuZn39Pb3 (CW614N) All brass manufactured component parts can be optionally nickel plated to a maximum of 0.008mm

Alternative entry component thread forms:

Metric	ISO 965-1, ISO 965-3 medium fit (6g) for external threads
ET (Conduit)	BS31:1940 (1979), Table A
PG	DIN 40430:1971
BSPP	BS2779:1986 class A full form for external threads
BSPT	BS21:1985 standard threads only as clause 5.4, gauging to clause 5.2 system A
ISO	ISO 7/1:1994, gauging to ISO 7/2 clause 6.3 for external threads
NPT	ANSI/ASME B1.20.1-2013 gauging to clause 3.2 for external threads
NPSM	ANSI/ASME B1.20.1-2013 gauging to clause 6.4 for external threads

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

Gland Type		Range take (inches)		Max no. of cores	Typical entry thread size	
Current	Alternative	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	1 ¼ "	M32 x 1.5
TMC2X125S	TMC2X**162	1.300	1.620	59	1 ½""	M40 x 1.5
TMC2X125	TMC2X**190	1.570	1.900	59	1 ½"	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	2 ½"	M63 x 1.5
TMC2X200	TMC2X**272	2.270	2.710	115	2 ½"	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	3 ½"	M90 x 2.0
TMC2X350	TMC2X**376	3.160	3.760	140	4"	M100 x 2.0
TMC2X400	TMC2X**425	3.700	4.250	200	4"	M115 x 2.0
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

Notes:

- Sira 09ATEX1165X and IECEx SIR 09.0069X is superseded by this certificate.
- The product covered by Issue 0 of this certificate remains identical to that previously covered by Sira 09ATEX1165X and IECEx SIR 09.0069X.
- Where Sira 09ATEX1165X and/or IECEx SIR 09.0069X is specified in other product certification, or other technical specifications, this certificate reference for the product shall be used in its place; updating of the other product certificate or technical specification is not required.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	26 Mar 2019	R12060G/00	Issue of Prime Certificate

Note: Drawings that describe the equipment or component are listed in the Annex.

13 Conditions of Manufacture

None.

14 Specific Conditions of Use (Special Conditions)

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

i. The glands shall only be fitted to enclosures where the temperature, at the point of mounting, is below 85°C.
ii. The cable shall be effectively clamped as close as possible to the gland.
iii. When used for increased safety (Ex e) or dust protection by enclosure (Ex t) applications, the user shall provide a suitable interface seal between the gland and associated enclosure to maintain the appropriate level of ingress protection of IP54 for increased safety and IP6X for dust protection by enclosure.
iv. The TMC2X cable glands comprise a flameproof labyrinth joint having length and gap dimensions which are other than those specified in EN 60079-1 and are not intended to be repaired in service.

Certificate Annex

Certificate Number	**CML 18ATEX1336X**
Equipment	**Type TMC2X Range of Cable Glands**
Manufacturer	**CMP Products Ltd**

The following documents describe the equipment or component defined in this certificate:

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
GA206	1 of 1	04	26 Mar 2019	TMC2X General arrangement and marking
GA672	1 of 1	01	26 Mar 2019	RMSPT-TMC2X General arrangement