

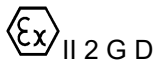


## EU Type Examination Certificate CML 16ATEX3106X Issue 2

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment **PM\* Series of Panel Mount Control Units**
- 3 Manufacturer **Pepperl+Fuchs GmbH**
- 4 Address **Lilienthalstraße 200  
68307 Mannheim  
Germany**
- 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.
- 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 60079-0:2012+A11:2013    EN 60079-1:2007    EN 60079-7:2007  
EN 60079-31:2009

- 10 The equipment shall be marked with the following:



Ex d e IIC T6 Gb

Ex tb IIIC T80°C Db

Ta= -40°C to +50°C



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## 11 Description

The PM\* Series of Panel Mount Control Units have a protection type 'Ex d e' and 'Ex tb'. The enclosure of these products comprises of a plastic protective housing with a cable gland integrated in to the wall. An operation head which is certified as an Ex component is installed to suit the application.

There are four models of electric modules which are intended for panel mounting. Depending on the model, there are different certified Ex components mounted inside the enclosure. The specification of the four models is shown in the table below:

Model & Product Type	Electrical Ratings	Variants
PMP.* panel mount pushbutton module PMS.* panel mount switch module	250 V ac / 16 A 110 V dc / 1 A 24 V dc / 1 A	Switch Module
PMI.* panel mount illuminated pushbutton module	Button: 250 V ac / 10 A 24 V dc / 1 A Lamp: 12 – 250 V ac / dc Pmax ≤ 1 W	Signal lamp with button module
PML.* panel mount LED module	12 – 250 V ac / dc 200 – 400 V ac Pmax ≤ 1 W	Signal lamp module
PMR.* panel mount potentiometer module	200 V dc End resistance: Max. 3 Ω 0.1 W	Potentiometer module

### Variation 1:

This variation introduces the following modifications:

- i. Change to the part number references of the equipment
- ii. The Equipment Name, Description, Conditions of Manufacture and Special Conditions for Safe Use (Conditions of Certification) on the certificate have been updated to incorporate modification i.
- iii. Minor administrative alterations to the equipment Description.
- iv. The manufacturer's marking drawings and instruction manual have been updated to include the updated part numbers.



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## 12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	07 Jun 2016	R1187A/00	Issue of Prime Certificate
1	21 Jul 2016	R1411A/00	Introduction of Variation 1
2	07 Mar 2019	R12226A/00	Transfer of Certificate to CML BV

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

## 13 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. Each unit shall be subjected to a routine dielectric strength test in accordance with EN 60079-7, clause 7.1. The test conditions for each model are specified below:

Model	Test voltage	Duration
PMP* / PMS*	1500 V / 50 Hz	1 minute
PMI*	1800 V / 50 Hz	1 minute
PML*	1800 V / 50 Hz	1 minute
PMR*	1500 V / 50 Hz	1 minute

No breakdown shall occur

- iii. Holders of EU Type examination certificates are also required to comply with the production control requirements defined in article 17 of 2014/34/EU.

## 14 Specific Conditions of Use (Special Conditions)

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

- i. The cable glands alone do not provide sufficient clamping of the cable. The user/installer shall provide further effective clamping of the cable to ensure that pulling and twisting is not transmitted to the terminations.
- ii. The PM\* panel mount control units shall be installed in an area such that there is a low risk of mechanical impact.
- iii. The equipment is considered to pose a potential electrostatic charging hazard. Refer to the instructions for guidance on the avoidance of a build-up of electrostatic charge.
- iv. Any repair of the flameproof joints shall be made in accordance with the structural specification provided by the manufacturer. Repairs shall not be made on the basis of values specified in Tables 1 or 2 of standard EN 60079-1.
- v. For the PML\* series panel mount LED module, the tightening torque of the terminals is 1.1 Nm.



## Certificate Annex

**Certificate Number** CML 16ATEX3106X  
**Equipment** PM\* Series of Panel Mount Control Units  
**Manufacturer** Pepperl+Fuchs GmbH

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

### Issue 0

Drawing No	Sheets	Rev	Approved date	Title
16-1256CM-04	1 to 2	0	07 Jun 2016	Component drawing for control functions plastic series explosion-proof panel mounting modules

### Issue 1

Drawing No	Sheets	Rev	Approved date	Title
16-1256CM-04	1 to 2	A	21 Jul 2016	Component drawing for panel mount control units

### Issue 2

None.