



EU Type Examination Certificate CML 19ATEX1425X Issue 2

- 1 Equipment intended for use in Potentially Explosive Atmospheres Directive 2014/34/EU
- 2 Equipment 6100 Purge Controller
- 3 Manufacturer Pepperl+Fuchs SE
- 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 67386717, Koopvaardijweg 32, 4906CV Oosterhout, 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 IEC 60079-0:2018

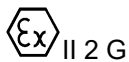
EN 60079-1:2014

EN 60079-2:2014

EN 60079-11:2012

EN 60079-7:2015

- 10 The equipment shall be marked with the following:



Ex db eb ib [ib Gb] [pxb Gb] IIC T4 Gb

Ta = -20°C ≤ Ta ≤ +60°C



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

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A Snowden

A Snowden
Certification Officer



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11 Description

The 6100 Purge Controller, 6100-MPX-EX-XX-XX-XXX-XXX, consists of an Ex eb certified main enclosure housing the controller portion of the Purge and Pressurization system with associated Ex certified cable entry devices. Also incorporated are Ex eb certified terminals used for the non-intrinsically safe circuits such as the incoming power supply, an intrinsically safe solenoid valve and a pipe assembly used to supply the air/inert gas to the intended pressurised enclosure.

Forming part of the 6100 Purge Controller is the Enclosure Protection Vent (EPV-6100-MPX-XXX-XXX-XXX) is intended to be mounted onto the final purged and pressurized equipment assembly.

The EPV-6100-MPX-XXX-XXX-XXX is a fabricated sheet metal enclosure. Inert gas/air flow enters the vent via an orifice plate fitted between the rear of the EPV and the intended pressurized enclosure. The orifice plate is of a fixed overall size, however the size of the orifice is specific to the application, depending on flow rate and pressurization requirements. Fitted internally to the EPV is an intrinsically safe pressure switch, considered as simple apparatus and is controlled by the Purge and Pressurization System.

Control Unit

	I	II	III	IV	V	VI
e.g.	6100-MP	x	-EX	-AC	-01	-xxx-xxx
I.	Family 6100-MP – 6100 Motor Purge					
II.	Subfamily x – any alphanumeric character describing a subfamily of the 6100 Motor Purge or may be left blank					
III.	Hazardous Application -EX – ATEX/IECEX, EPL Gb					
IV.	Voltage/Current rating -AC – AC powered -DC – DC powered					
V.	UIC installation -01 – UIC installed in control unit -02 – UIC provided separately for remote mount					
VI.	Enclosure/Pneumatic variations -xxx-xxx – any alphanumeric characters describing a variation in the pneumatic system or enclosure, or may be left blank					



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Vent

	I	II	III	IV	V
e.g.	EPV-6100-MP	x	-020	-xxx	-xxx
I.	Family EPV-6100-MP – 6100 Motor Purge Vent				
II.	Subfamily x – any alphanumeric character describing a subfamily of the 6100 Motor Purge Vent or may be left blank				
III.	Flow rate -020 – vent allowing for 2,000 L/min flow -050 – vent allowing for 5,000 L/min flow -080 – vent allowing for 8,000 L/min flow -110 – vent allowing for 11,000 L/min flow -140 – vent allowing for 14,000 L/min flow -xxx – any alphanumeric characters describing another flow rate				
IV.	Sealing pressure -xxx – any alphanumeric characters describing a different sealing pressure				
V.	Vent Enclosure variant -xxx – any alphanumeric characters describing a variation in the vent enclosure or may be left blank				

Low Pressure Sensor

6100-MP-LPP-01 Low pressure sensor (mechanically modified EPV-6000)

Accessories

6100-MP-EX-UIC-01 User Interface Controller (installed inside control unit, accessible from outside)
6100-MP-EX-UIC-02 6100-MP-EX-UIC-01 + IP54 Enclosure in accordance with IEC 60529 (for remote installation)

Other Accessories

6000-TSEN-01 Temperature sensor

Variation 1

This variation introduced the following modifications:

- i. Update of the equipment nomenclature to allow differentiation between variations for non-controlled parameters.
- ii. Removal of an option of I.S. solenoid valve.
- iii. Update of company name to Pepperl+Fuchs SE.
- iv. Correction of typographical errors on the certification drawings.
- v. Update to the mounting dimensions in the user manual.
- vi. Update of CML B.V.'s address on this certificate.



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Variation 2

This variation introduced the following modifications:

- i. To amend the product description.
- ii. Modification to product Nomenclature.

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	23/10/2019	R12484A/00	Prime release
1	02/09/2020	R13385A/00	Introduction of Variation 1
2	22/04/2024	R17394A/00	Introduction of Variation 2

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 of the product defined on this certificate shall continually monitor these parts/components for any modifications introduced by the manufacturer(s) of these constituent parts. If the manufacturer of any constituent part introduces any changes which affect the compliance of the certified product that is the subject of this certificate, the manufacturer is required to have this certificate updated.

14 Specific Conditions of Use (Special Conditions)

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

- i. The equipment shall only be fitted with suitably certified cable entry devices and/or blanking plugs appropriate to the application.
- ii. The non-metallic membrane touchpad and display and the non-metallic coil housing on the intrinsically safe solenoid valve are potential electrostatic discharge hazards. Use only water damp cloth and allow to air dry for cleaning the devices. Do not use or install in high charge areas.
- iii. Do not wipe off 6000-TSEN-xx sensor with dry cloth or use in the presence of high charge generating processes such as ionizers or electrostatic equipment.

Certificate Annex

Certificate Number CML 19ATEX1425X
Equipment 6100 Purge Controller
Manufacturer Pepperl+Fuchs SE



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

Issue 0

Drawing No	Sheets	Rev	Approved date	Title
16-B045CM-00	1 to 4	0	23/10/2019	Description and Calculations
16-B045CM-02	1 to 5	0	23/10/2019	Safety Relevant Components
16-B045CM-04	1 to 10	0	23/10/2019	Mechanical Parts
16-B045CM-07	1 to 8	0	23/10/2019	Assembly Instructions
16-B045CM-09	1 to 6	0	23/10/2019	Instructions (Controlled Part)
16-B045CM-10	1 to 3	0	23/10/2019	Labels

Issue 1

Drawing No.	Sheets	Rev	Approved date	Title
16-B045CM-00	1 to 4	A	17 Aug 2020	Motor Purge - Description and Calculations
16-B045CM-02	1 to 5	A	17 Aug 2020	Motor Purge – Safety Relevant Components
16-B045CM-09	1 to 6	A	17 Aug 2020	Motor Purge – Instructions
16-B045CM-10	1 to 3	A	17 Aug 2020	Motor Purge – Label(s)

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Drawing No.	Sheets	Rev	Approved /issued date	Title
16-B045CM-00	1 to 5	B	22 Apr 2024	Motor purge - description and calculations
16-B045CM-09	1 to 6	B	22 Apr 2024	Motor purge – instructions
16-B045CM-10	1 to 3	B	22 Apr 2024	Motor purge – label(s)