

UK Type Examination Certificate CML 21UKEX1380X Issue 1

United Kingdom Conformity Assessment

- 1 Product or Protective System Intended for use in Potentially Explosive Atmospheres UKSI 2016:1107 (as amended) – Schedule 3A, Part 1
- 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 Eurofins E&E CML Limited, Newport Business Park, New Port Road, Ellesmere Port, CH65 4LZ, United Kingdom, Approved Body Number 2503, in accordance with Regulation 42 of the Equipment and Protective Systems Intended for Use in Potentially Explosive Atmospheres Regulations 2016, UKSI 2016:1107 (as amended), 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 Schedule 1 of the Regulations.

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 specific conditions of use (affecting correct installation or safe use). These are specified in Section 14.

8 This UK Type Examination certificate relates only to the design and construction of the specified equipment. Further requirements of the Regulations apply to the manufacturing process and supply of the product. These are not covered by this certificate.

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

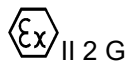
EN 60079-1:2014

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



A Snowdon



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

12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	20 Apr 2021	R14112A/00	Issue of Prime Certificate.
1	22 Apr 2024	R17394A/00	Introduction of Variation 1

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

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in its entirety and without change
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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

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 21UKEX1380X
Equipment 6100 Purge Controller
Manufacturer Pepperl+Fuchs SE



The following documents describe the equipment defined in this certificate:

Issue 0

For drawings describing the equipment, refer to attached certificate CML 19ATEX1425X Iss. 1. In addition to the drawings listed on CML 19ATEX1425X Iss. 1, the following drawings include the additional marking required for this UK Type Examination certification:

Drawing No	Sheets	Rev	Approved date	Title
16-1555CM-10	1 of 2	0	07 May 2021	Additional Marking Requirements for UKCA

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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)