

UK Type Examination Certificate CML 21UKEX1380X Issue 0**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 43 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:



II 2 G

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

Ta = -20°C ≤ Ta ≤ +60°C



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11 Description

The 6100 Purge Controller, 6100-MP-EX-XX-XX-XXX, consists of an Ex e certified main enclosure housing the controller portion of the Purge and Pressurization system with associated Ex certified cable entry devices. Also incorporated are Ex e 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-MP-XXX-XXX) is intended to be mounted onto the final purged and pressurized equipment assembly.

The EPV-6100-MP-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 a pressure switch, considered as simple apparatus and is controlled by the Purge and Pressurization System.

Control Unit

6100-MP-EX-AC-01-XXX	Purge control unit, AC powered, UIC pre-installed in control unit
6100-MP-EX-AC-02-XXX	Purge control unit, AC powered, UIC provided separately for remote mount
6100-MP-EX-DC-01-XXX	Purge control unit, DC powered, UIC pre-installed in control unit
6100-MP-EX-DC-02-XXX	Purge control unit, DC powered, UIC provided separately for remote mount

For the above, XXX stands for any alphanumerical characters describing a variation in the pneumatic system or enclosure.

Vent

EPV-6100-MP-020-YYY	Enclosure vent, with orifice plate allowing for 2,000 L/min
EPV-6100-MP-050-YYY	Enclosure vent, with orifice plate allowing for 5,000 L/min
EPV-6100-MP-080-YYY	Enclosure vent, with orifice plate allowing for 8,000 L/min
EPV-6100-MP-110-YYY	Enclosure vent, with orifice plate allowing for 11,000 L/min
EPV-6100-MP-140-YYY	Enclosure vent, with orifice plate allowing for 14,000 L/min
EPV-6100-MP-ZZZ-YYY	Enclosure vent, with custom size orifice plate, ZZZ stands for any alphanumerical characters describing another flow rate.

For the above YYY stands for any alphanumerical characters describing a different sealing pressure

Low Pressure Sensor

6100-MP-LPP-01	Low pressure sensor (mechanically modified EPV-6000)
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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
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12 Certificate history and evaluation reports

Issue	Date	Associated report	Notes
0	20 Apr 2021	R14112A/00	Issue of Prime Certificate.

Note: Drawings that describe the equipment are listed or referred to 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.

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:

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The drawings approved for the linked/attached ATEX certificate include all information required to show compliance, except for the marking of the UKCA symbol, Approved Body number, and the UKEX certificate number. In this scenario, include the following note and table:

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