

# CERTIFICATE OF CONFORMITY



## 1. HAZARDOUS (CLASSIFIED) LOCATION ELECTRICAL EQUIPMENT PER US REQUIREMENTS

2. Certificate No: FM24US0217X

3. Equipment:  
(Type Reference and Name) Type 8697...PR08 Pneumatic Controller

4. Name of Listing Company: Bürkert Werke GmbH & Co KG

5. Address of Listing Company: Christian-Bürkert-Straße 13-17, D74653 Ingelfingen, Germany

6. The examination and test results are recorded in confidential report number:

PR468747 dated 3<sup>rd</sup> February 2025

7. FM Approvals LLC, certifies that the equipment described has been found to comply with the following Approval standards and other documents:

FM 3600:2022, FM 3611:2021, FM 3810:2021, ANSI/UL 60079-0:2020, ANSI/UL 60079-7:2021, ANSI/UL 60079-31:2015, ANSI/IEC 60529:2020, ANSI/UL 61010-1:2019, ANSI/UL 121201:2021

8. If the sign 'X' is placed after the certificate number, it indicates that the equipment is subject to specific conditions of use specified in the schedule to this certificate.

9. This certificate relates to the design, examination and testing of the products specified herein. The FM Approvals surveillance audit program has further determined that the manufacturing processes and quality control procedures in place are satisfactory to manufacture the product as examined, tested and Approved.

## 10. Equipment Ratings:

Nonincendive for Class I, II, III, Division 2, Groups ABCDFG, T4  
Increased Safety Protection for Class I, Zone 2, AEx ec IIC T4 Gc  
Protection by enclosure for Zone 22, AEx tc IIIC T135°C Dc  
IP64

Certificate issued by:

J.E. Marquedant  
VP, Manager - Electrical Systems

7 April 2025

Date

To verify the availability of the Approved product, please refer to [www.approvalguide.com](http://www.approvalguide.com)

**THIS CERTIFICATE MAY ONLY BE REPRODUCED IN ITS ENTIRETY AND WITHOUT CHANGE**

FM Approvals LLC. One Technology Way, Norwood, MA 02062 USA

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## **SCHEDULE**

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**FM Approvals**

### 11. The marking of the equipment shall include:

Class I, II, III, Division 2, Groups ABCDFG, T4  
Class I, Zone 2, AEx ec IIC T4 Gc  
Zone 22, AEx tc IIIC T135°C Dc  
Ta = 0°C to +55°C

### 12. Description of Equipment:

**General** - The Pneumatic Control unit Type 8697...PR08 is used to control pneumatic actuated process valves (e.g. stroke valves, as a seat or diaphragm valve)

**Construction** - The electronics are housed in a plastic enclosure with a transparent cover.

**Electrical Ratings** - The Pneumatic Control unit Type 8697...PR08 operates off a supply voltage of 24Vdc

**Temperature Ratings** - The ambient operating temperature range of the Pneumatic Control unit Type 8697...PR08 is 0°C to +55°C.

### 13. Specific Conditions of Use:

1. For the variant with cable plug M12, the plug is provided by the end user in the end use application. This plug shall be installed in accordance with all applicable clauses from ANSI/UL 60079-0, ANSI/UL 60079-7 and ANSI/UL 60079-31. A minimum degree of protection of IP54 according to ANSI/IEC 60529 shall be ensured
2. Cable gland shall be positioned in such a way as to minimize the risk of mechanical impact
3. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1
4. Transient protection shall be provided that is set at a level not exceeding 140% of the peak rated voltage value at the supply terminals to the equipment
5. The circuits shall be limited to overvoltage Category II as defined in IEC 60664-1
6. The surface of the equipment may cause risk of electrostatic discharge. Avoid installation that could cause electrostatic build-up and clean with a damp cloth.

### 14. Test and Assessment Procedure and Conditions:

This Certificate has been issued in accordance with FM Approvals US Certification Requirements.

### 15. Schedule Drawings

A copy of the technical documentation has been kept by FM Approvals.

### 16. Certificate History

Details of the supplements to this certificate are described below:

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Date	Description
3 February 2025	Original Issue.
7 April 2025	<u>Supplement 1:</u> Report Reference: RR245544 dated 7 April 2025. Description of the Change(s): Class III added to Division 2 marking string

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