

# CERTIFICATE OF CONFORMITY



Member of the FM Global Group

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

2. **Certificate No:** FM19US0204X
3. **Equipment:** HD2-GTR-4PA.PN\* Profinet-PA Gateway  
(Type Reference and Name) MB-FB-GTR1\* Motherboard  
MBHC-FB-4.GT\* Motherboard
4. **Name of Listing Company:** Pepperl+Fuchs SE
5. **Address of Listing Company:** Lilienthalstrasse 200, D-68307 Mannheim, Germany
6. The examination and test results are recorded in confidential report number:  
PR454421 dated 28<sup>th</sup> December 2023

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 60079-0:2013, ANSI/UL 60079-7:2021,  
ANSI/UL 60079-11:2018, ANSI/UL 61010-1:2012, ANSI/UL 121201:2017

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:

See Annex

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

See Annex

## 12. Description of Equipment:

**General** – The PROFINET Power Hub includes the PROFINET-PA Gateway HD2-GTR-4PA.PN\* and two Motherboards MB-FB-GTR1\* and MBHC-FB-4.GT\*. The PROFINET-PA Gateway can be plugged on a non-

## Certificate issued by:

J.E. Marquedant  
VP, Manager - Electrical Systems

21 March 2024

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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redundant motherboard MBHC-FB-4.GT\* or two PROFINET-PA Gateway are plugged onto a redundant motherboard MB-FB-GTR1\*. The motherboard MB-FB-GTR1\* can be connected via a Sub-D connection with a Fieldbus Power Hub motherboard \*.HSC\* or \*.GEN\*.

**Construction** - The housing corresponds to a type of protection of IP20 according to IEC 60529.

**Ratings** – The Fieldbus IO operates at 19.2-35 VDC. The equipment rated for use in an ambient temperature range of -40°C to +60°C or -40°C to +70°C depending on mounting.

### 13. Specific Conditions of Use:

1. When installed in a Class I Division 2 or Class 1 Zone 2 installation, the equipment shall be mounted within a tool-secured enclosure which is capable of the wiring methods specified in the National Electrical Code (NFPA 70) The equipment shall be installed in an enclosure with a minimum ingress protection rating of IP54.
2. Installations shall be protected to achieve a pollution degree of 2 or lower.

### 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:

Date	Description
28 December 2023	Original Issue.
21 March 2024	<u>Supplement 1:</u> Report Reference: RR239987 dated 21 March 2024. Description of the Change(s): Update equipment rating to remove ic rating. Correct company address.

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# **ANNEX**

## **HD2-GTR-4PA.PN\* Profinet-PA Gateway**

### **Equipment Ratings:**

Nonincendive for Class I Division 2, Groups A, B, C, and D; Increased Safety for Class I, Zone 2, AEx ec IIC T4 Gc; hazardous (classified) locations with an ambient temperature rating of upto -40°C to +70°C

### **Markings:**

Class I Division 2, Group A, B, C, D; T4

Class I, Zone 2 AEx ec IIC T4 Gc

Ta = -40°C to 60°C Horizontal Mounting or -40°C to 70°C Vertical Mounting

## **MB-FB-GTR1\* Motherboard**

### **Equipment Ratings:**

Nonincendive for Class I Division 2, Groups A, B, C, and D; Increased Safety for Class I, Zone 2, AEx ec IIC T4 Gc; hazardous (classified) locations with an ambient temperature rating of -40°C to +70°C

### **Markings:**

Class I Division 2, Groups A, B, C, D; T4

Class I, Zone 2 AEx ec IIC T4 Gc

Ta = -40°C to 70°C

## **MBHC-FB-4.GT\* Motherboard**

### **Equipment Ratings:**

Nonincendive for Class I Division 2, Groups A, B, C, and D; Increased Safety for Class I, Zone 2, AEx ec IIC T4 Gc; hazardous (classified) locations with an ambient temperature rating of -40°C to +70°C

### **Markings:**

Class I Division 2, Groups A, B, C, D; T4

Class I, Zone 2 AEx ec IIC T4 Gc

Ta = -40°C to 70°C

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