

# (1) TYPE-EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 94/9/EC**
- (3) Type-Examination Certificate Number

## TÜV 15 ATEX 7735 X

- (4) **Equipment:** PROFINET-PA Gateway HD2-GTR-4PA.PN\*  
Motherboards MB-FB-GTR1\* and MBHC-FB-4.GT\*
- (5) **Manufacturer:** Pepperl+Fuchs GmbH
- (6) **Address:** Lilienthalstraße 200, 68307 Mannheim  
Germany

- (7) This equipment and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Notified Body for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 9 of the Council Directive 94/9/EC of 23 March 1994, certifies this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmosphere, given in Annex II to the Directive.

The examination and test results are recorded in the confidential report 557/Ex7735.00/15

- (9) Compliance with the Essential Health and Safety Requirements, with the exception of those listed in the schedule of this certificate, has been assessed by reference to:

**EN 60079-0: 2012+A11:2013      FprEN 60079-7: 2015      EN 60079-11: 2012**

except the requirements, which are listed under item (18).

- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions for safe use specified in the schedule to this certificate.
- (11) This Type-Examination Certificate relates only to the design and specification for construction of the equipment or protective system. It does not cover the process for actual manufacture or supply of the equipment or protective system, for which further requirements of the directive are applicable.
- (12) The marking of the equipment shall include the following



**II 3 G Ex ec IIC T4 Gc**

TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-02-11



Dipl.-Ing. Klauspeter Graffi

This Type-Examination Certificate without signature and stamp shall not be valid.  
This Type-Examination Certificate may be circulated only without alteration. Extracts or alterations are subject to approval by the  
TÜV Rheinland Notified Body of TÜV Rheinland Industrie Service GmbH, Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(13)

Annex to

(14)

## Type Examination Certificate

### TÜV 15 ATEX 7735 X

(15)

#### Description of equipment

##### 15.1 Equipment and type:

PROFINET-PA Gateway HD2-GTR-4PA.PN\*  
 Motherboards MB-FB-GTR1\* and MBHC-FB-4.GT\*

##### 15.2 Description

General product information:

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-redundant motherboard MBHC-FB-4.GT\* or two PROFINET-PA Gateway are plugged onto a redundant motherboard MB-FB-GTR1\*.

The PROFINET Power Hub System may also be operated with the following components:

|                                       |              |   |  |
|---------------------------------------|--------------|---|--|
| Isolated Fieldbus Power Supply Module | HCD2-FBPS*   | Ⓜ II 3G Ex nA IIC T4 Gc<br>Ex nA IIC T4 Gc or<br>Ⓜ II 3G Ex ec IIC T4 Gc<br>Ex ec IIC T4 Gc             | TÜV 10 ATEX 555761 X<br>IECEX TUN 13.0037X |
| Fieldbus Diagnostic Module            | HD2-DM-A*    | Ⓜ II 3G Ex nA IIC T4 Gc<br>Ex nA IIC T4 Gc or<br>Ⓜ II 3G Ex ec IIC T4 Gc<br>Ex ec IIC T4 Gc or          | TÜV 04 ATEX 2500 X<br>IECEX TUN 13.0038X   |
|                                       | HD2-DM-B*    | Ⓜ II 3G Ex nA nC IIC T4 Gc<br>Ex nA nC IIC T4 Gc or<br>Ⓜ II 3G Ex ec nC IIC T4 Gc<br>Ex ec nC IIC T4 Gc |  |
| PROFIBUS Power Hub, Gateway Module    | HD2-GTR-4PA* | Ⓜ II 3G Ex nA IIC T4 Gc<br>Ex nA IIC T4 Gc or<br>Ⓜ II 3G Ex ec IIC T4 Gc<br>Ex ec IIC T4 Gc             | TÜV 04 ATEX 2500 X<br>IECEX TUN 13.0038X   |

##### 15.3 Technical Data

|                     |                   |
|---------------------|-------------------|
| Horizontal mounting | -40 °C to +60 °C  |
| Vertical mounting   | -40 °C to +70 °C  |
| Usupply             | 19.2 V... 35 V dc |

This Type Examination Certificate without signature and official stamp shall not be valid.  
 This certificate may be circulated without alteration. Extracts or alterations are subject to approval by.  
 TÜV Rheinland Notified Body of TÜV Rheinland Industrie Service GmbH, Am Grauen Stein 51105 Köln  
 Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

(16) **Test-Report No.** 557/Ex7735.00/15

Parts of the device, which already fulfil the requirements for the category, were not approved and assessed by TÜV Rheinland Industrie Service.

The applicability and assembly of mechanical and electrical parts and components were assessed and approved by TÜV Rheinland Industrie Service with respect to the requirements of explosion protection.

(17) **Special Conditions for safe use**

1. The equipment shall only be used in an area of at least pollution degree 2, as defined in IEC 60664-1
2. The equipment shall be installed in an enclosure that provides a minimum ingress protection of IP54 in accordance with IEC 60079-0.
3. Connection or disconnection of any energized circuits is only permitted in the absence of a potentially explosive atmosphere.

(18) **Basic Safety and Health Requirements**

Covered by afore mentioned standard

TÜV Rheinland ExNB für explosion protected equipment

Cologne, 2016-02-11



Dipl.-Ing. Klauspeter Graffi

This Type Examination Certificate without signature and official stamp shall not be valid.  
This certificate may be circulated without alteration. Extracts or alterations are subject to approval by.  
TÜV Rheinland Notified Body of TÜV Rheinland Industrie Service GmbH, Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114