

# (1) EU TYPE-EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 14/34/EU**
- (3) EC Type-Examination Certificate Number

**TÜV 15 ATEX 7683 U**

Issue: 01

- (4) Equipment: **HIMax**
- (5) Manufacturer: **HIMA Paul Hildebrandt GmbH**
- (6) Address: **Albert-Bassermann-Straße 28  
68782 Brühl**
- (7) This product and any acceptable variation thereto are specified in the schedule to this certificate and the documents therein referred to.
- (8) The TÜV Rheinland Zertifizierungsstelle for ex-protected products of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 14/34/EU of 26<sup>th</sup> February 2014, 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/Ex7683.01/15 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 50271: 2010      EN 50495: 2010      EN 60079-0: 2012      EN 60079-29-1: 2007**

- (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.



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TÜV Rheinland ExNB for explosion protected equipment

Cologne, 2016-05-19

  
Dipl.-Ing. Heinz Farke



This EU 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 Industrie Service GmbH TÜV Rheinland Group Am Grauen Stein 51105 Köln  
Tel. +49 (0) 221 806-0 Fax. + 49 (0) 221 806 114

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Annex

(14)

## EU Type Examination Certificate

### TÜV 15 ATEX 7683 U Issue: 01

(15)

#### Description of equipment

##### 15.1 Equipment and type:

HIMax

X-BASE PLATE, X-CPU 01, X-CPU 31, X-SB 01, X-AI 32 01, X-AI 32 02, X-DO 32 01, X-DO 24 01

##### 15.2 Details of Change

- Update according to directive 2014/34/EU.
- The listing of the standard EN 50271:2010.
- The product was additionally assessed to meet the requirements of the EN 50402: 2005 + A1:2008.
- Modification and re assessment of the manufacturer's documentation.
- Update of the "schedule of limitations".

#### Technical Data

<b>Requirement type</b>	
Protection class	Protection class III in accordance with IEC/EN 61131-2
Ambient temperature	0...+60 °C
Storage temperature	-40...+85 °C
Pollution	Pollution degree II in accordance with IEC/EN 61131-2
Altitude	< 2000 m
Housing	Standard: IP20
Supply voltage	24 VDC

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Test-Report No.

557/Ex7683.01/15

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(17) Schedule of limitations:

1. The HIMax can be used as a SIL certified safety, controlling and regulating device for the safe functioning of Ex-products and gas measuring applications. This EU type examination certificate covers a component according to the European directive 2014/34/EU. An additional conformity assessment procedure has to be applied to achieve an EU type examination certificate as a safety-, control and regulating device.
2. The above listed standards were applied for this component, including the full scope of EN 50271. The additional conformity assessment procedure shall verify the gas measuring system as well as the fail safe functionality in its completeness. Thereto especially the following needs to be considered:
  - The gas detector (transmitter) related sections of the EN 50271 and EN 60079-29-1.
  - Programming of the final application software for the gas measuring system and/or safe functioning acc. to EN 50495 shall be done by using the software tool SILworX.
  - The verification and validation of the functionality need to be completed
  - The Instructions and Safety Information for the final product / application acc. to 14/34/EU, Annex II, clause 1.0.6 need to be developed.
3. The instructions of use for the component according to 2014/34/EU, article 6, clause 8 (Instructions and Safety Information) shall be observed.

(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

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