

# (1) EU-TYPE EXAMINATION CERTIFICATE



- (2) Equipment and Protective Systems intended for use in Potentially Explosive Atmosphere - **Directive 2014/34/EU**
- (3) EU-Type Examination Certificate Number

**TÜV 13 ATEX 7380 U**

Issue: 02

- (4) Equipment: **HIMatrix F35 03, HIMatrix F3 AIO 8/4 01**
- (5) Manufacturer: **HIMA Paul Hildebrandt GmbH**
- (6) Address: **Albert-Bassermann-Straße 28  
68782 Brühl, Germany**

(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 für Explosionsschutz of TÜV Rheinland Industrie Service GmbH, Notified Body No. 0035 in accordance with Article 21 of the Council Directive 2014/34/EU of 26<sup>th</sup> February 2014, certifies this product which 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/Ex7380.00/13

(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 60079-29-1:2016**

**EN 50271:2018**

(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 EU-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:



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TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

Cologne, 2024-03-13

Dipl.-Ing. Christian Mehrhoff



This EU-Type Examination Certificate without signature and stamp shall not be valid.  
This EU-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  
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(13)

Annex

(14)

## EU Type Examination Certificate

### TÜV 13 ATEX 7380 U

Issue: 02

(15) Description of equipment

15.1 Equipment and type:

HIMatrix F35 03  
HIMatrix F3 AIO 8/4 01

15.2 Description / Details of Change

General product information

The safety-related HIMatrix controller F35 03 are compact systems located in a metal enclosure with 24 digital inputs, 8 digital outputs, 2 counters and 8 analog inputs.

The safety-related F3 AIO 8/4 01 remote I/O is a compact system located in a metal enclosure with 8 analog inputs and 4 analog outputs.

The HIMatrix is a safety related programmable electronic system for process control with an emergency shutdown for machinery, where the safe state is the de-energized state.

If the HIMatrix is connected to gas detection sensors, which fulfill EN 60079-29-1, it can be used for the shutdown of devices, which are located in a hazardous area up to zone 1, if it's well configured.

**Details of change:**

- Update of the standard EN 50271:2018, EN 50402:2017 and EN 60079-29-1:2016.
- HIMatrix F35 01 is withdraw.
- Update of the schedule of limitations.
- Update of the software version

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### Technical Data

#### Electrical data

Supply voltage: 24 VDC

#### Environmental data

Ambient temperature: 0°C to +60°C

(16) Test-Report No. 557/Ex7380.02/13

(17) Schedule of limitations

1. The HIMatrix 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. The additional conformity assessment procedure shall verify the gas measuring system as well as the safety function 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 safety function acc. to EN 50271 shall be done by using the software tool SILworX.
  - The verification and validation of the functionality need to be completed together with the EMC requirements according to EN 60079-29-1.
  - 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.

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(18) Basic Safety and Health Requirements

Covered by afore mentioned standard

TÜV Rheinland Zertifizierungsstelle für Explosionsschutz

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