



IECEX Certificate of Conformity

INTERNATIONAL ELECTROTECHNICAL COMMISSION IEC Certification System for Explosive Atmospheres

for rules and details of the IECEx Scheme visit www.iecex.com

Certificate No.: **IECEX TUR 14.0034X** Page 1 of 5 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2023-08-22\)](#)
[Issue 0 \(2015-11-18\)](#)
Date of Issue: 2024-07-09
Applicant: **HIMA Paul Hildebrandt GmbH**
Albert-Bassermann-Str. 28
68782 Brühl
Deutschland
Germany
Equipment: **HIMatrix**
Optional accessory: see EQUIPMENT AND SYSTEMS COVERED BY THIS CERTIFICATE
Type of Protection: **ec nC**
Marking: Ex ec nC IIC T4 Gc (F2 DO 8 01, F2 DO 16 02, F60 PS 01, F60 PS 014)
Ex ec IIC T4 Gc (all others)

Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)

Date:
(for printed version)

2024-07-09

1. This certificate and schedule may only be reproduced in full.
2. This certificate is not transferable and remains the property of the issuing body.
3. The Status and authenticity of this certificate may be verified by visiting www.iecex.com or use of this QR Code.



Certificate issued by:

TUV Rheinland Industrie Service GmbH
Am Grauen Stein
51105 Cologne
Germany





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Manufacturer: **HIMA Paul Hildebrandt GmbH**
Albert-Bassermann-Str. 28
68782 Brühl
Deutschland
Germany

Manufacturing
locations:

This certificate is issued as verification that a sample(s), representative of production, was assessed and tested and found to comply with the IEC Standard list below and that the manufacturer's quality system, relating to the Ex products covered by this certificate, was assessed and found to comply with the IECEX Quality system requirements. This certificate is granted subject to the conditions as set out in IECEX Scheme Rules, IECEX 02 and Operational Documents as amended

STANDARDS :

The equipment and any acceptable variations to it specified in the schedule of this certificate and the identified documents, was found to comply with the following standards

[IEC 60079-0:2017](#) Explosive atmospheres - Part 0: Equipment - General requirements
Edition:7.0

[IEC 60079-15:2017](#) Explosive atmospheres - Part 15: Equipment protection by type of protection "n"
Edition:5.0

[IEC 60079-7:2017](#) Explosive atmospheres - Part 7: Equipment protection by increased safety "e"
Edition:5.1

This Certificate **does not** indicate compliance with safety and performance requirements other than those expressly included in the Standards listed above.

TEST & ASSESSMENT REPORTS:

A sample(s) of the equipment listed has successfully met the examination and test requirements as recorded in:

Test Report:

[DE/TUR/ExTR14.0030/02](#)

Quality Assessment Report:

[DE/TUR/QAR24.0006/00](#)



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

HIMatrix

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. The system shall be supplied with a SELV or PELV supply only.
2. The equipment shall only be used in an area of not more than pollution degree 2, as defined in IEC 60664-1.
3. The equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC 60079-7.
4. The information of the HIMatrix safety manual concerning the selection criteria for the enclosure (cabinet) and the special installation instructions have to be considered.
5. The maximum ambient temperature has to be considered for each module.
6. The pins of the contact loop for the fault signal (available on F60 PS 01) shall solely be supplied with the 24V supply voltage of the system.
7. Only voltages of up to 60VDC/30VAC of the same potential are allowed to be connected to the I/O s of the module F2 DO 16 02. If they are connected to different sources, only voltages of up to 40VDC/30VAC are allowed.
8. The switching current of remote modules F2 DO 8 01 and F2 DO 16 02 has to be limited to max. 2A



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Equipment (continued):

The safety-related HIMatrix controllers can be used in process controllers, protective systems, burner controllers, and machine controllers. Dependent on the application several systems in different configurations are available. All of them were assessed separately and in connection to each other.

HIMatrix systems:

Compact systems:

F35 03, F30 03, F3 DIO 20/8 02, F3 DIO 16/8 01, F3 DIO 8/8 01, F3 AIO 8/4 01, F2 DO 16 01, F2 DO 16 02, F2 DO 8 01, F1 DI 16 01

Modular systems:

F60 and its modules:

F60 GEH 01, F60 PS 01, F60 CPU 03, F60 AO8 01, F60 DI32 01, F60 DIO 24/16 01, F60 MI24 01

Filters:

H 7032, H 7033 (filter and protection for the connection of transmitters)

Accessories:

Z73** * (Shunt adaptors for input modules)

CM-*** (plug on modules for communication)

Technical data: see attachment



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The Certificate has been updated with the new QAR number.

Annex:

[DE-IECEX_TUR_14.0034X_02_Attachment.pdf](#)



Device: HIMatrix

Manufacturer: HIMA Paul Hildebrandt GmbH

Address: Albert-Bassermann-Str. 28
68782 Brühl
Germany

Technical Data:

Rated voltage 20.4 ... 28.8 V

Ambient temperature:

0 °C ≤ Ta ≤ 60 °C

F30 030 **	F60 GEH 01
F35 030 **	F60 PS 01
F1 DI 16 01	F60 CPU 03 **
F2 DO 16 01	F60 AO8 01
F3 DIO 8/8 01	F60 DI32 01
F3 DIO 16/8 01	F60 DIO 24/16 01
F3 DIO 20/8 02	F60 MI24 01
F3 AIO 8/4 01	

-25 °C ≤ Ta ≤ 70 °C

F30 034 **	F60 GEH 014	H 7032
F35 034 **	F60 PS 014	H 7033
F1 DI 16 014	F60 CPU 034 **	
F2 DO 16 014	F60 DI32 014	
F3 DIO 8/8 014	F60 DIO 24/16 014	
F3 DIO 16/8 014	F60 MI24 014	
F3 DIO 20/8 024		
F3 AIO 8/4 014		

0 °C ≤ Ta ≤ 50 °C

F2 DO 8 01
F2 DO 16 02

The plug on modules for the communication interfaces can be plugged onto some of the listed base modules.