



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 14.0036X	Page 1 of 4	<u>Certificate history:</u>
Status:	Current	Issue No: 3	Issue 2 (2023-09-01)
Date of Issue:	2024-07-09		Issue 1 (2018-05-29)
Applicant:	HIMA Paul Hildebrandt GmbH Albert-Bassermann-Str. 28 68782 Brühl Germany		Issue 0 (2016-03-15)
Equipment:	HIQuad X systems		
Optional accessory:	Cable plugs Z 7***		
Type of Protection:	ec, nC		
Marking:	Ex ec nC IIC T4 Gc Ex ec IIC T4 Gc		

Approved for issue on behalf of the IECEx
Certification Body:

Christian Mehrhoff

Position:

Assigned certifier

Signature:
(for printed version)



2024-07-09

Date:
(for printed version)

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
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/ExTR14.0032/03](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

General product information:

HIQuad X is a safety-related programmable control system and is intended for high availability. HIQuad X is a modular system, which consists of 19 inch subracks for central devices and modules for binary and analog input or output signals.

Depending on the required safety and availability, HIQuad X can be supplied as one-channel or dual-channel (redundant) devices with the same modules in the central device, as well as in the input or output layer. Redundant modules increase the availability, as in case of an error in a safety-related module this module is automatically switched off, while the redundant module continues the operation.

HIQuad X systems are compact and modular automation systems, in which the modules can be inserted into slots.

The modules are:

F-CPU 01, F-IOP 01, F-COM 01, F-PWR 01, F-PWR 02, F 3221, F 3224A, F 3236, F 3237, F 3238, F 3240, F 3248, F 3322, F 3325, F 3330, F 3331, F 3333, F 3334, F 3335, F 3349, F 3422, F 3430, F 5220, F 6215, F 6217, F 6221, F 6705, F 6706, F 7133, F-BASE RACK 01 *, F-BASE RACK 02 *, F-BASE RACK 11, F-BASE RACK 12 *

Filters:

H 7034, H 7035, power supply filter

Accessories:

Cable plugs Z 7***

Technical data:

Rated voltage: 20.4 ... 28.8 V DC

Ambient temperature: $0^{\circ}\text{C} \leq T_a \leq 60^{\circ}$ ($-25^{\circ}\text{C} \leq T_a \leq 70^{\circ}\text{C}$ for H 7034 /H 7035 only)

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 60079-0 or IEC 60079-7.
4. The enclosure in use must be able to safely dissipate the generated heat.
5. Only voltages of the same potential are allowed to be connected to the I/O s of the module F 3422.
6. The I/O subrack must be provided with forced ventilation.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The Certificate has been updated with the new QAR number.