



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 18.0011** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 2 [Issue 1 \(2023-08-16\)](#)
[Issue 0 \(2018-08-21\)](#)
Date of Issue: 2024-07-09
Applicant: **HIMA Paul Hildebrandt GmbH**
Albert-Bassermann-Str. 28
68782 Brühl
Germany
Equipment: **HIQuad Module F6221**
Optional accessory:
Type of Protection: **[Ex ia]**
Marking: **[Ex ia Ga] IIC**
[Ex ia Da] IIC

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
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 60079-11:2011](#) Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"
Edition:6.0

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/ExTR18.0011/02](#)

Quality Assessment Report:

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



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The field of application of the F 6221 module is the operation with intrinsically safe Ex ia current transmitters (0/4 to 20mA) which can be supplied by intrinsically safe supplies [Ex ia], e.g. unit F 3325. The F 6221 module is an associated apparatus and contains the measuring device. It can be used to measure up to eight signal inputs (I1 to I8). For monitoring the transmitter supply voltages, another eight signal inputs (TC1 to TC8) are available.

Ambient temperature: $T_a = 0^{\circ}\text{C} \dots + 60^{\circ}\text{C}$

Supply circuit UB1:

$U_n = 24\text{VDC} (-15\%, +20\%), U_{B1_{\max}} = 30\text{V}$

$U_m = 40\text{V}$

(terminal X1 z2(L+), d2(L-))

Supply circuit UB2:

$U_n = 4.5 \dots 5.5\text{VDC}, U_{B2_{\max}} = 6.0\text{V}$

$U_m = 40\text{V}$

(terminal X1 z6, d6(V_{DD}), z30, d30(GND))

Intrinsically safe values for the measuring and monitoring channels,

type of protection [Ex ia Ga] IIC/IIB

or [Ex ia Da] IIIC/IIIB

measuring monitoring

+I 1-8: TC 1-8:

$U_o: 5.7\text{V}$ $U_o: 5.7\text{V}$

$I_o: 2\text{mA}$ $I_o: 0.5\text{mA}$

$P_o: 2.9\text{mW}$ $P_o: 0.72\text{mW}$

(terminal z2, z4, ..., z16 z18, z20, ..., z32)

Maximum allowed external capacitance **or** inductance:

| Ex ia / Ex ib | single circuit | | parallel ^{*1} circuit | |
|---------------|------------------|--------------------|--------------------------------|--------------------|
| | IIC | IIB/IIIC/IIIB | IIC | IIB/IIIC/IIIB |
| L_o | 1H | 1H | 1H | 1H |
| C_o | 50 μF | 1000 μF | 50 μF | 1000 μF |

Maximum allowed external capacitance **and** inductance (mixed consideration):

| Ex ia / Ex ib | single circuit | | parallel ^{*1} circuit | |
|---------------|-------------------|-------------------|--------------------------------|-------------------|
| | IIC | IIB/IIIC/IIIB | IIC | IIB/IIIC/IIIB |
| L_o | 5 mH | 5 mH | 5 mH | 5 mH |
| C_o | 1.5 μF | 7.5 μF | 1.5 μF | 7.5 μF |

Note ^{*1}: parallel operation of two measuring and two monitoring channels

SPECIFIC CONDITIONS OF USE: NO



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

The Certificate has been updated with the new QAR number.