



# 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](http://www.iecex.com)

Certificate No.: **IECEX TUR 17.0022X** Page 1 of 4 Certificate history:  
Status: **Current** Issue No: 2 [Issue 1 \(2023-12-14\)](#)  
[Issue 0 \(2017-04-21\)](#)  
Date of Issue: 2024-07-09  
Applicant: **HIMA Paul Hildebrandt GmbH**  
Albert-Bassermann-Str. 28  
68782 Brühl  
Germany  
Equipment: **Planar 4, Module 13 110**  
Optional accessory:  
Type of Protection: **Ex ia**  
Marking: [Ex ia Ga] 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.
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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/ExTR17.0022/02](#)

Quality Assessment Report:

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



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## EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The electronic module of type 13 110 is a 2-channel isolation amplifier for the transmission of control signals from the intrinsically safe circuit, type of protection "Ex ia", to the non-intrinsically safe output circuits. The module was assessed to meet the requirements of an associated apparatus [Ex ia Ga].

The permissible range of ambient temperature is -25°C up to +70°C.

Accessories: Subrack 90 901 and 90 911

Power supply: 24V DC (-15%, +20%)  $U_m = 40V$

(Terminals +: z30, d30; -: z32, b32, d32)

Control circuits: [Ex ia Ga] IIC

(Terminals d2 and d4, d8 and d10)

$U_o = 9V$

$I_o = 11mA$

$P_o = 25mW$

The maximum permissible values of the external capacitance and inductance of a single control circuit as well as of two circuits connected in parallel are shown in the following table:

Ex	single circuit		parallel connection	
	IIC	IIB	IIC	IIB
$C_o$	4.9 uF	40 uF	4.9 uF	40 uF
$L_o$	300 mH	1000 mH	80 mH	290 mH

Output circuits: 16...33V DC, 20mA per circuit  $U_m = 40V$

(Terminals d18, d22, z18, d20, d24, z20, d28, all outputs refer to -)

Communication circuits:

Terminals z28, b28

$U_m = 40V$

Relay outputs:

Terminals b26, d26, z26:  $U \leq 30V$  (DC/AC),  $I \leq 1A$ ;  $P \leq 30W$ ,  $U_m = 40V$

## SPECIFIC CONDITIONS OF USE: YES as shown below:

- The module 13110 is an associated apparatus and shall be mounted into an enclosure with ingress protection of at least IP 20 according to EN 60529.
- Each of the two circuits of one or two electronic modules s may be connected in parallel:

One module: terminal d4 connected to d10

terminal d2 connected to d8

Two modules: terminal d4 connected to d4

terminal d2 connected to d2

- If the Planar 4 system is intended to be placed in a hazardous area of zone 2, the certificate IECEX TUR 14.0033X and its special conditions shall be considered.
- The installation instructions of the manual shall be considered.
- The permissible range of ambient temperature is -25°C up to +70°C.



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**DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)**

The Certificate has been updated with the new QAR number.