



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 FTZU 15.0030X**

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Certificate history:

Status: **Current**

Issue No: 3

Issue 2 (2022-07-15)

Issue 1 (2017-10-26)

Issue 0 (2015-09-24)

Date of Issue: **2024-03-28**

Applicant: **Analytical Control Instruments GmbH**
Volmerstrasse 9A
Berlin 12489
Germany

Equipment: **Stationary Photoionization Detector type SPID2-*; SPID3-***

Optional accessory:

Type of Protection: **Flameproof enclosure "db"**

Marking: **Ex db IIC T6 Gb**

Approved for issue on behalf of the IECEx
Certification Body:

Dipl. Ing. Lukáš Martinák

Position:

Head of the Certification Body

Signature:
(for printed version)

Lukáš Martinák

Date:
(for printed version)

2024-03-28



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:

Fyzikálně technický zkušební ústav
(Physical -Technical Testing Institute)
Pikartská 7, 71607 Ostrava - Radvanice
Czech Republic





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Manufacturer: **Analytical Control Instruments GmbH**
Volmerstrasse 9A
Berlin 12489
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 60079-1:2014 Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d"
Edition:7.0

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 Reports:

CZ/FTZU/ExTR15.0030/00
CZ/FTZU/ExTR15.0030/03

CZ/FTZU/ExTR15.0030/01

CZ/FTZU/ExTR15.0030/02

Quality Assessment Report:

CZ/FTZU/QAR15.0002/08





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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The photo ionization detector SPID2-*; SPID3-* are designed for to detect and measure vaporous organic compounds in ambient air in atmospheric conditions. The detectors consist of flameproof enclosure with sight glass equipped with the sampling pump and electronic circuits. Gas inlet, gas outlet and clean air inlet are separated from environment by three sinters. Enclosure is equipped with M20 x 1.5 threaded hole for installation of appropriate certified Ex equipment cable glands for direct entry.

This certificate does not cover performance tests according to IEC 60079-29-1 standard.

For type keys - see Annex.

Technical specification:

Rated voltage: 9 V DC + 36 V DC (SPID2); 10 V DC + 28 V DC (SPID3)

Maximum power dissipation: 4 W

Outputs: RS485 digital interface Relay, 30 V DC / 2 A (type SPID2-*S1*), Current Loop 0-20 mA

Maximum threshold power: 100 mW for WLAN IEEE 802.11 b/g/n without setting option (SPID3).

SPECIFIC CONDITIONS OF USE: YES as shown below:

1. Verified values of the maximum gaps and minimum constructional length of flameproof joints of this enclosure are different from relevant minimum and maximum values mentioned in standard. To obtain information about joints dimension it is necessary to contact the manufacturer.
2. Ambient temperature range: $-40^{\circ}\text{C} \leq T_a \leq +60^{\circ}\text{C}$.





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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

Issue 3:

Added new variant SPID3-* . The modification consists in the addition of the SPID3-* type. The design of the enclosure is identical to the SPID2-* type. The internal electrical equipment is identical by function to SPID2, it differs in circuit details and by the addition of another microcontroller with Wifi module and the arrangement of electrical components inside enclosure.

Sensor part with sinters are unchanged.

Annex:

[Annex_to_IECEX_FTZU_15003003.pdf](#)





Annex to Certificate of Conformity
IECEx FTZU 15.0030 issue No.: 3

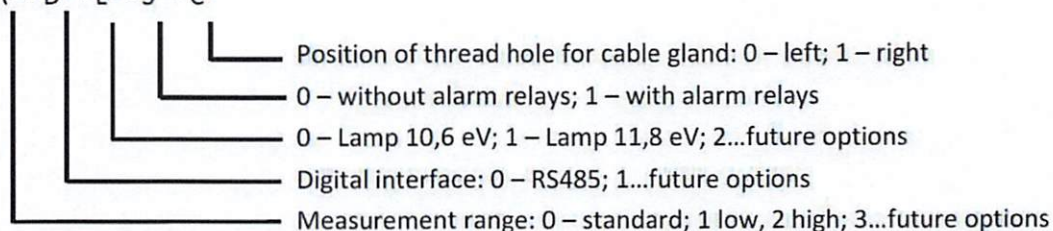


Applicant: **Analytical Control Instruments GmbH (ACI GmbH)**
Address: **Volmerstraße 9A, D-12489 Berlin, Germany**

Electrical Apparatus: **Stationary Photoionization Detector type SPID2-* ; SPID3-***

Type key:

SPID2 - R* - D* - L* - S* - C*



SPID3 - R* - D* - L* - S* - A* - C*

