



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 FIDI 24.0006X** Page 1 of 4 Certificate history:
Status: **Current** Issue No: 1 Issue 0 (2024-06-19)
Date of Issue: 2025-02-25
Applicant: **QUASAR SERVICE S.r.l**
Piazza Pontida 28
BERGAMO (BG) 24126
Italy
Equipment: **Pressurized cabinets type: QSIT***/**, QSITD***/**, QPST***/** QPSTD***/****
Optional accessory:
Type of Protection: **Pressurized enclosures 'pxb/pzc'; Intrinsic safety 'ia/ib'**
Marking: **Type QSIT***/**** : Ex ia pxb [ia Ga or ib Gb] IIB or IIB+H2 or IIC T6...T3 Gb
Ex pxb [ia Ga or ib Gb] IIB or IIB+H2 or IIC T6...T3 Gb
Type QSITD*/**** : Ex ia pxb [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...T200°C Db
Ex pxb [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...T200°C Db
Type QPST*/**** : Ex ia pxb [ia Ga or ib Gb] IIB or IIB+H2 or IIC T6...T3 Gc
Ex pxb [ia Ga or ib Gb] IIB or IIB+H2 or IIC T6...T3 Gc
Ex ia pzc [ia Ga or ib Gb] IIB or IIB+H2 or IIC T6...T3 Gc
Ex pzc [ia Ga or ib Gb] IIB or IIB+H2 or IIC T6...T3 Gc
Type QPSTD*/**** : Ex ia pxb [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...T200°C Dc
Ex pxb [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...T200°C Dc
Ex ia pzc [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...T200°C Dc
Ex pzc [ia Da or ib Db] IIIA or IIIB or IIIC T85°C...T200°C Dc

Approved for issue on behalf of the IECEX
Certification Body:

Marino Kelava



Fiditas d.o.o.
ZAGREB

Position:

Certification Signatory

Signature:
(for printed version)

Date:
(for printed version)

2025-02-25

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Zagreb-Sesvete HR-10361
Croatia



Fiditas
explosion safety solutions



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Certificate No.: **IECEX FIDI 24.0006X**

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Date of issue: 2025-02-25

Issue No: 1

Manufacturer: **QUASAR SERVICE S.r.l**
Piazza Pontida 28
BERGAMO (BG) 24126
Italy

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

IEC 60079-2:2014 Explosive atmospheres - Part 2: Equipment protection by pressurized enclosure "p"
Edition:6

IEC 60079-25:2010 Explosive atmospheres – Part 25: Intrinsically safe electrical systems
Edition:2.0

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:

HR/FIDI/ExTR24.0009/00

HR/FIDI/ExTR24.0009/01

Quality Assessment Report:

FR/INE/QAR14.0004/09



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EQUIPMENT:

Equipment and systems covered by this Certificate are as follows:

The pressurized cabinets type QSIT**** and QSITD**** are designed in type of protection pressurised enclosure, with level of protection "pxb", EPL Gb and Db.

The pressurized cabinets type QPST**** and QPSTD**** are designed in type of protection pressurised enclosure, with level of protection "pxb" or "pzc", EPL Gc and Dc.

Cabinets type QSIT**** and QPST**** are intended for use in places with an explosive gas atmosphere, while cabinets type QSITD**** and QPSTD**** are intended for use in places with an explosive dust atmosphere.

For other details see Annex

SPECIFIC CONDITIONS OF USE: YES as shown below:

- The user must follow the safety instructions and take all necessary precautions before bypassing the pressurisation alarm system.
- User shall connect, on intrinsic safety terminal strip, only equipment which comply with the electrical parameters of the associated intrinsically safe apparatus shown in the safety instructions document.
- The user shall comply with the specific conditions of use related to separately certified Ex equipment, incorporated in the pressurised cabinet according to the manufacturer's documents.



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DETAILS OF CERTIFICATE CHANGES (for issues 1 and above)

- Change in product code
- Update of marking to cover option without intrinsic safety
- For the cabinet with limited internal release of a gas or liquid: addition of leakage compensation

Annex:

[IECEX_FIDI_24.0006_Annex01.pdf](#)

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Equipment description (continued from original certificate)

The pressurised cabinet consists of a metallic enclosure, which is the main volume and can contain electrical and non-electrical equipment, it is made of steel panels, equipped with one or more doors, and with optional windows. A pressurization system is used to control and verify the minimum internal overpressure, to perform the purging of the enclosure, to manage the pressurization by leakage compensation and to energize / switch off the equipment and devices inside the cabinet. The cabinet can be equipped with an electro-mechanical pressurization system, which is composed of a flameproof enclosure with separately IECEx certified associated apparatuses and intrinsically safe pressure switches located in hazardous area. The cabinet can be equipped, as an alternative, with a separately IECEx certified pressurization system from a third-party manufacturer.

The allowed protective gas is instrumental compressed air or inert gas, as specified in the marking plate. The maximum internal free volume is from 0.07 m³ to 10 m³. The degree of enclosure protection according to IEC 60529 is IP4X minimum for level of protection "pxb" and IP3X minimum for level of protection "pzc" (declared by the manufacturer).

The pressurised cabinet with level of protection "pxb" may contain an internal source of release of flammable substance.

The incorporation of explosion protected electrical and non-electrical equipment and apparatus, with their own certificate, is allowed according to the manufacturer documents. IECEx certified air conditioner(s) can be used with this pressurized cabinets as well as gas analysers.

Type code identification

This certificate covers the following pressurized cabinets: QSIT***/**, QPST***/**, QSITD***/** and QPSTD***/**. The asterisks in this document are used in place of one or more optional character(s) concerning additional information about the pressurized cabinet as specified in the following table:

QSIT	***	*	*	QSIT: external gas explosive atmosphere, EPL Gb
QSITD				QSITD: external dust explosive atmosphere, EPL Db
QPST				QPST: external gas explosive atmosphere, EPL Gc
QPSTD				QPSTD: external dust explosive atmosphere, EPL Dc
				Volume (cubic meters multiplied by 100) Range: from 7 to 1000
				A = Quasar pressurization system B = Pepperl+Fuchs pressurization system C = Stahl pressurization system D = Bartec pressurization system E = Expo pressurization system F = Gonnheimer pressurization system
				X = internal dilution Y = with compound-filled cable entries XY = both options



IECEx Certificate of Conformity

IECEx FIDI 24.0006, issue: 1
Annex 1
Date: 2025.02.25

Ratings:

Maximum rated voltage	11 000 V
Maximum internally generated voltage	24 kV r.m.s.
Maximum controlled voltage	11 kV r.m.s. – 1.5 kV d.c.
Maximum rated current	10 000 A
Maximum controlled current	4 000 A
Maximum controlled power	10 000 kW – kVA
Maximum dissipated power	5 000 W
Frequency	Up to 62 Hz
Protective gas	Air or Inert gas (density equal to air $\pm 10\%$)
Rated ambient temperature range (°C)	-40°C to +50°C for T6/85°C or T5/100°C -40°C to +60°C for T4/135°C or T3/200°C

Parameters related to safety:

Supply pressure of protective gas	1 to 8 bar
Maximum internal overpressure	13 mbar
Minimum overpressure in service	
Level of protection "pxb"	0.5 mbar
Level of protection "pzc"	0.25 mbar
Maximum leakage rate	3 x internal volume (in m ³ /h)

LIST OF SEPARATELY CERTIFIED PRESSURIZATION SYSTEMS

MANUFACTURER	MODEL	CERTIFICATE	MARKING
BARTEC GmbH	SILASpz	IECEx BVS 19.0038X	Ex ec mc ic [ic pzc] IIC T5 Gc Ex tc [ic pzc] IIIC T95°C Dc
	APEX px	IECEx BVS 19.0038X	Ex eb mb ib [ib pxb] [ia Ga] IIC T5 Gb Ex tb [ib pxb] [ia Da] IIIC T95°C Db
EXPO Technologies Ltd	MINIPURGE	IECEx SIR 07.0027X	Ex [pzc] IIC T6 Gc Ex [pzc] IIIC T85° Dc
		IECEx SIR 07.0027X	Ex [pxb] ia IIC T5 Gb Ex [pxb] ia IIIC T100°C Db
Gönnheimer Elektronik GmbH	FS 830	IECEx BVS 15.0037X	Ex ec nC ic [pzc] IIC T6 Gc
	FS 840	IECEx BVS 15.0037X	Ex ec nC ic [pzc] IIC T5 Gc Ex tc ic [pzc] IIIB T85°C Dc Ex tc ic [pzc] IIIC T85°C Dc
			Ex e mb [ib] [px] IIC T6 Gb Ex eb mb [ib] [pxb] IIC T6 Ex tb [ib] [p] IIIC T 70°C Db IP65 Ex tb [ib] [pb] IIIC T 70°C Db IP65
	F 850S	IECEx BVS 12.0033	Ex e mb [ib] [px] IIC T4 Gb Ex eb mb [ib] [pxb] IIC T4 Ex tb [ib] [p] IIIC T 70°C Db IP65 Ex tb [ib] [pb] IIIC T 70°C Db IP65
Pepperl+Fuchs SE	6000	IECEx UL 08.0003X	Ex db ib [ib Gb] [pxb Gb] IIC T4 Gb Ex ib tb [ib Db] [pxb Db] IIIC T60°C Db
			Ex db eb ib [ib Gb] [pxb Gb] IIC T4 Gb
	6100	IECEx CML 19.0156X	Ex db eb ib [ib Gb] [pxb Gb] IIC T4 Gb
	6500	IECExUL 16.0003X	Ex eb q ib [ib Gb] [pxb Gb] IIC T4 Gb Ex tb ib [ib Db] [pxb Db] IIIC T135°C Db
	5500	IECEx UL 14.0019X	Ex ic ec nC [ic Gc] [pzc Gc] IIC T4 Gc Ex ic tc [ic IIIC Dc] [pzc Dc] IIIB T80°C
			Ex ic ec nC [ic Gc] [pzc Gc] IIC T6 Gc Ex ic tc [ic IIIC Dc] [pzc Dc] IIIB T60°C Dc
R. STAHL Schaltgeräte GmbH	7500	IECEx UL 18.0022X	Ex ec mc nC [pzc Gc] IIC T6...T4 Gc Ex mc tc [pzc Dc] IIIC T60°C...T80°C Dc
	8621	IECEx TUR 19.0033X	Ex eb mb ia [pxb Gb] [ia Ga] IIC T4 Gb Ex tb [pxb Db] [ia Da] IIIC T130°C Db
	7621	IECEx TUR 19.0033X	Ex ec mc ia [pzc Gc] [ia Ga] IIC T6 Gc Ex tb [pzc Dc] [ia Da] IIIC T80°C Dc

LIST OF SEPARATELY CERTIFIED 'Exi' EQUIPMENT

MANUFACTURER	PRODUCT	CERTIFICATE	MARKING
GM International	Isolator D1130S	IECEx BVS 07.0027X	Ex ec [ia Ga] IIC T4 Gc [Ex ia Ga] IIC [Ex ia Da] IIIC
Pepperl+Fuchs	Amplifier KCD2-SR-Ex2	IECEx BAS 06.0025X	Ex ec nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC
	Amplifier KFU8-SR-Ex2.W	IECEx FIDI 22.0003X	Ex ec nC [ia Ga] IIC T4 Gc [Ex ia Da] IIIC
PR electronics A/S	Pulse Isolator Series 9202B	IECEx KEM 06.0039X	Ex ec nC IIC T4 [Ex ia Ga] IIC/IIB/IIA [Ex ia Da] IIIC
Turck	Isolating switching amplifier IM1*-***-Ex-** ; IM1*-***-Ex**	IECEx TUN 21.0020 X	[Ex ia Ga] IIC, [Ex ia Da] IIIC, Ex ec [ia Ga] IIC T4 Gc Ex ec nC [ia Ga] IIC T4 Gc

The separately certified Ex equipment with 'Ex i' and 'Ex p' type of protection, listed above were not certified according to the latest edition of standards but have no major gaps to the standards listed in this CoC.