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 EPS 26.0038X**	Page 1 of 3	Certificate history:
Status:	**Current**	Issue No: 0	
Date of Issue:	2026-07-15		
Applicant:	**IFTA Ingenieurbüro für Thermoakustik GmbH** Junkersstrasse 8 82178 Puchheim **Germany**		
Equipment:	**Charge Amplifier, types 0330-CA-D-xxxx.x-Ex-Bxx-x-x and 0337-ENC-02-I03-Ex-B0x-x**		
Optional accessory:			
Type of Protection:	**intrinsic safety "ic", increased safety "ec"**		
Marking:	Ex ec [ic] IIC T5 Gc		

Approved for issue on behalf of the IECEx Certification Body:

Dr. Rainer Jany

Position:

Manager Certification

Signature:
(for printed version)

Date:
(for printed version)

2026-07-15

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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:

Bureau Veritas Consumer Products Services Germany GmbH
Businesspark A96
86842 Türkheim
Germany

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Date of issue: 2026-07-15

Issue No: 0

Manufacturer: **IFTA Ingenieurbüro für Thermoakustik GmbH**
Junkersstrasse 8
82178 Puchheim
Germany

Manufacturing locations: **IFTA Ingenieurbüro für Thermoakustik GmbH**
Junkersstrasse 8
82178 Puchheim
Germany

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 Edition:7.0 — Explosive atmospheres - Part 0: Equipment - General requirements

IEC 60079-11:2023 Edition:7.0 — Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i"

IEC 60079-7:2017 Edition:5.1 — Explosive atmospheres - Part 7: Equipment protection by increased safety "e"

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/EPS/ExTR26.0035/00

Quality Assessment Report:

DE/EPS/QAR26.0003/00

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EQUIPMENT:
Equipment and systems covered by this Certificate are as follows:

The product is a charge amplifier to convert dynamic charge signals into a voltage signal for further analysis. It is usable for a wide range of sensor types and an essential part of the IfTA measurement setup.

The charge amplifier is available in three versions:

a) Model 0330-CA-D-xxxx.x-Ex, 0330-CA-D-xxxx.x-Ex-B00-x-x and 0330-CA-D-xxxx.x-Ex-B02-x-x are provided with functional enclosure only and are intended for built-in use, enclosure must be provided by the installation

b) Model 0330-CA-D-xxxx.x-Ex-B03-x-x is provided with a plastic enclosure

c) Model 0337-ENC-02-I03-Ex-B07-x is provided with a metal enclosure

Electrical data:

Input Voltage: 20 – 28 Vdc
Max. current: 8 – 12 mA

SPECIFIC CONDITIONS OF USE: YES as shown below:
For product 0330 without enclosure "B00" or "B02":
The equipment must be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with IEC 60079-0.

For product 0330 with enclosure "B03" and product 0337 with enclosure "B07":
Equipment for fixed installations where the installation is intended to minimize the risk from electrostatic discharge (refer to instructions).

For product 0337 with enclosure "B07":
A protective conductor must be connected to the Enclosure (refer to instructions).

The sensor input is designed for intrinsic safety. (Only passive sensors may be installed).
Uo: 2.2 V
Io: 22 mA
Po: 25 mW
Co: 19 µF
Lo: 9 mH

Ambient Temperature: -20 °C ≤ Tamb ≤ +75 °C

Annex:

IECEx Attachment.pdf

Annex to: IECEx EPS 26.0038X Issue No. 0

Applicant: IFTA Ingenieurbüro für Thermoakustik GmbH

Apparatus: Charge Amplifier

CHARGE AMPLIFIER

Product Key	Module	Sensor Type	Amplification	Environment	Housing / Installation	Design	Options
0330	CA	S	0005.0	St	B00	D Default	A
		D	0010.0	Ex	B01	C Custom	B - ZZ
			0025.0		B02	P Prototype	
			0050.0		B03		
			0100.0				
			0250.0				
			0000.5				
			0002.9				
			0052.6				
			0080.7				

Sensor Type		Amplification		Environment	
S	Single ended	0005.0	5 mV/pC	St	Standard
D	Differential	0010.0	10 mV/pC	Ex	Explosive Ex
		0025.0	25 mV/pC		
		0050.0	50 mV/pC		
		0100.0	100 mV/pC		
		0250.0	250 mV/pC		
		0000.5	0.5 mV/pC		
		0002.9	2.941 mV/pC		
		0052.6	52.63 mV/pC		
		0080.7	80.65 mV/pC		

Housing / Installation		Options	
B00	Wall mounting	A	High pass filter and increased input range Frequency range: 100 Hz ... 40 000 Hz (-3 db) Valid input ranges: ±200 ... ±10 000 pC
B01	With industrial Housing	B - ZZ	Spare
B02	DIN rail (TS35)		
B03	With industrial Housing for Ex [ic]		

Enclosure CA8

Product Key	Module	Dimensions	Interface	Environment	Housing	Design	Options
□□□□	□□□	□□	□□□	□□	□□□	□	□□
0337	ENC	02	I03	Ex	B03	D Default	A - ZZ Spare
					B04	C Custom	
					B07	P Prototype	
					B08		
					B09		

Dimensions

02	300x300x150mm

Interface

I03	8x 3-6mm & 8x 5-10mm M16 stuffing glands

Housing

B03	Stainless steel 316L
B04	Steel RAL7035
B07	Steel RAL7035 for Ex [ic]
B08	Steel RAL7035 for NEC505
B09	Steel RAL7035 for KC