

ArgusOMDS | DynaMaster | SmartProtect | DynaGo

COMPONENT MANUAL

ChargeAmplifier

In-Line Charge Amplifier



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Specific Safety Instructions



Before using this product, the user must be familiar with the general safety instructions. Use the separate **Safety Information** manual for this purpose.

This chapter only describes specific safety instructions for this product.

Field of Application

The **IFTA ChargeAmplifier (CA)** has been designed to be mounted as described in the chapter **Installation**. Other uses are not permitted due to safety aspects.

Use in potentially explosive Atmospheres

The **CA** can be installed in potentially explosive atmospheres. The product can be ordered with or without an external industrial housing as described in the chapter **Ordering Information**.

Also mind the special ambient temperature range as shown in the chapter **Environmental**/below.

In case the version without the industrial housing is used (models with suffix **B0** or **B2**), the equipment shall be installed in an enclosure that provides a degree of protection not less than IP 54 in accordance with EN IEC 60079-0.

For models with industrial housing (suffix **B1**) only: Equipment for fixed installations where the installation is intended to minimize the risk of electrostatic discharge.

The **CA** was certified within a complete **IFTA** measurement setup as shown in the chapter **Measurement Chain Example**. In order to get the best experience and measurement results we highly recommend using the **CA** with this setup.

The certification is only valid within the technical specifications as described in the chapter **Specifications**.

For further information regarding the certifications please see chapter **Declarations**.



Please always verify that the components are marked with the special symbol as it is described in the separate **Safety Information** manual.

Product Description

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.

Specifications

Features

- Support of Piezo pressure and acceleration sensors
- Certified according to *EN IEC 60079-0* and *EN IEC 60079-7*
- A wide range of different sensitivities are available as shown in the chapter **Ordering Information** (others on request)
- Available for wall mounting, with DIN rail or with Ex-certified housing
- Optional Ex-certified housing for up to 8 amplifiers available (**IFTA Enclosure CAB**)

Environmental

Operating temperature: -20 ... 75°C

Storage temperature: -40 ... 85°C

Humidity: 0 ... 95% non-condensing

Altitude: Max. 2 000 m

Pollution degree: The device may only be used in areas with pollution degree 2 or better, as defined in *EN IEC 60664-1*.

General

ChargeAmplifier

Case material: Sheet steel, galvanized

Weight: 175 g

Dimensions: See **Figure 1**

Protection class: For Ex environment the *CA* must be installed in an enclosure that provides a degree of protection not less than *IP 54* in accordance with *EN IEC 60079-0*.

Calibration cycle: One year

Industrial Housing (with one mounted CA)

Material:	Fibreglass reinforced polyester
Seal:	Silicone sealing cord up to 130°C
Weight:	690 g (including a mounted CA)
Dimensions:	See Figure 3
Protection class:	> IP 65

Technical Data

Frequency range:	3 Hz ... 40 000 Hz (-3 db) ¹
Linearity:	±1% FSO
Thermal drift:	100 ppm/ °C typical

Signal Input

Valid input ranges:	±20 ... ±1000 pC ¹
Input coupling:	AC
Input protection:	100 Ω series resistor
Input termination:	1 MΩ

Due to its construction, the CA does not emit any current or voltage through its input terminals.

Signal Output and Power Supply

Output signal:	12 V operating point; ±5 V signal
IEPE current supply:	4 ... 12 mA ²
Supply voltage:	20 ... 28 VDC

¹ Option with enhanced input range and different frequency range available, see **Ordering Information**

² For the best performance the use of 12 mA is recommended.

Ordering Information

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				
			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 ec
	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	
B02 DIN rail (TS35)	B - ZZ Spare

Default

Component Layout

As mentioned above the CA is available in different versions:

- For wall mounting
- With DIN rail (TS35)
- With Ex certified industrial housing

This chapter describes all three possibilities.

ChargeAmplifier for Wall Mounting (B00)

Dimensions

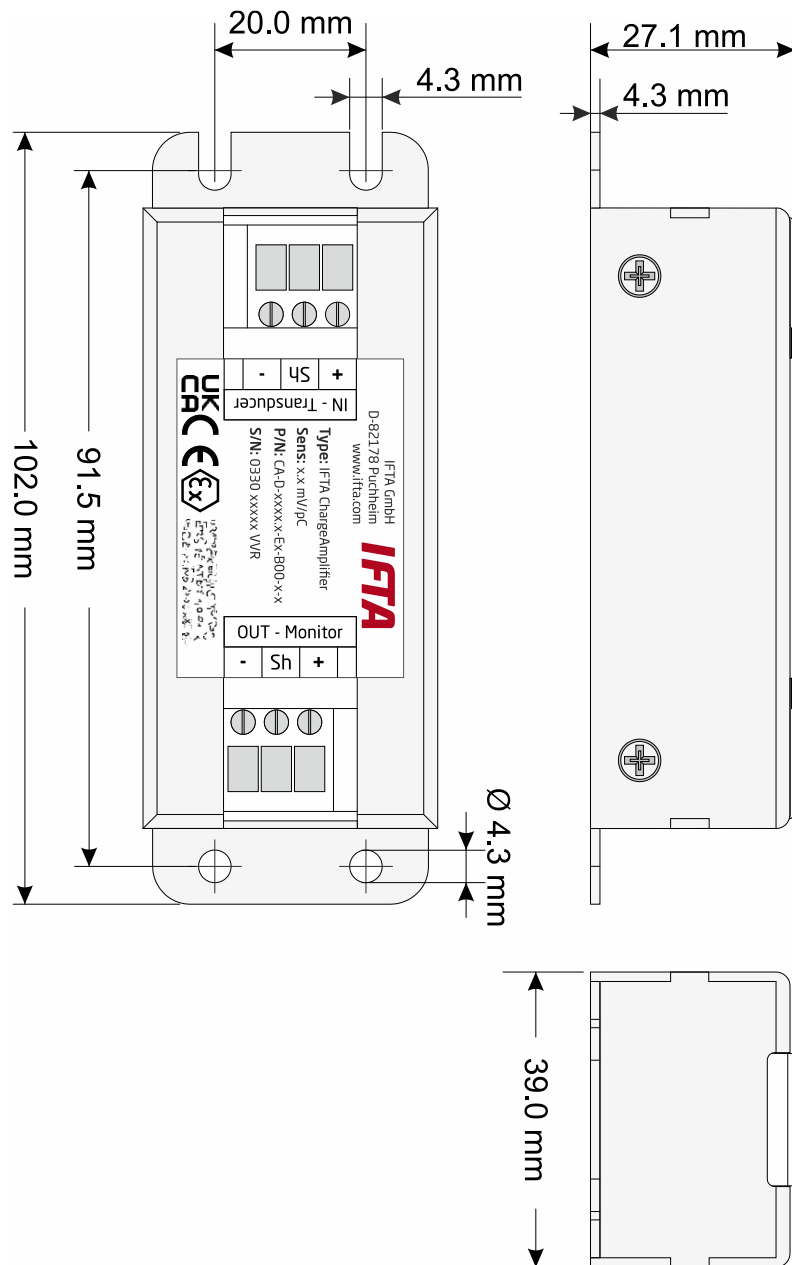


Figure 1: Dimensions of the CA for wall mounting (figure similar, subject to modification)

Layout

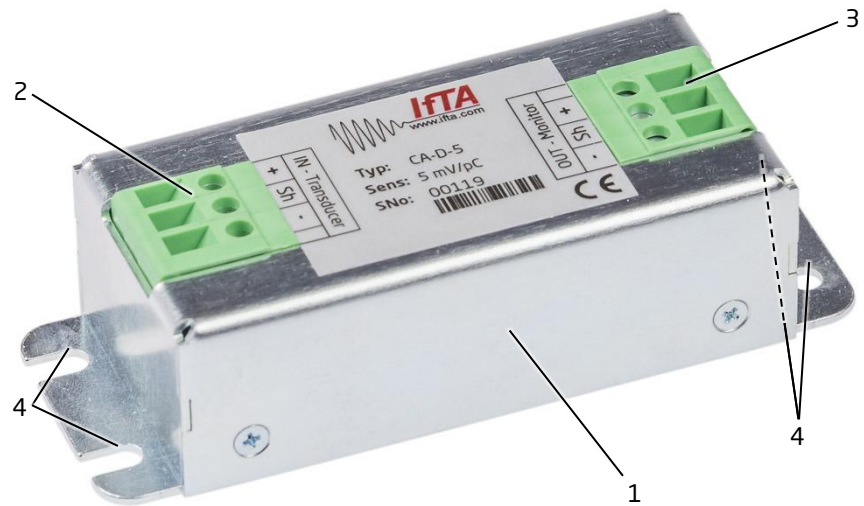


Figure 2: Layout of the CA for wall mounting (figure similar, subject to modification)

(1) Case

Housing of the CA

(2) Transducer - Input

3-pin screw terminal (the exact pin assignment is shown in [Figure 7](#) and [Figure 8](#))

(3) Monitor - Output

3-pin screw terminal (the exact pin assignment is shown in [Figure 7](#) and [Figure 8](#))

(4) Fixing Points

Four fixing points for the mounting of the CA (for details regarding the mounting see [Installing the CA without Housing](#))

ChargeAmplifier with industrial Housing (B01)

Dimensions

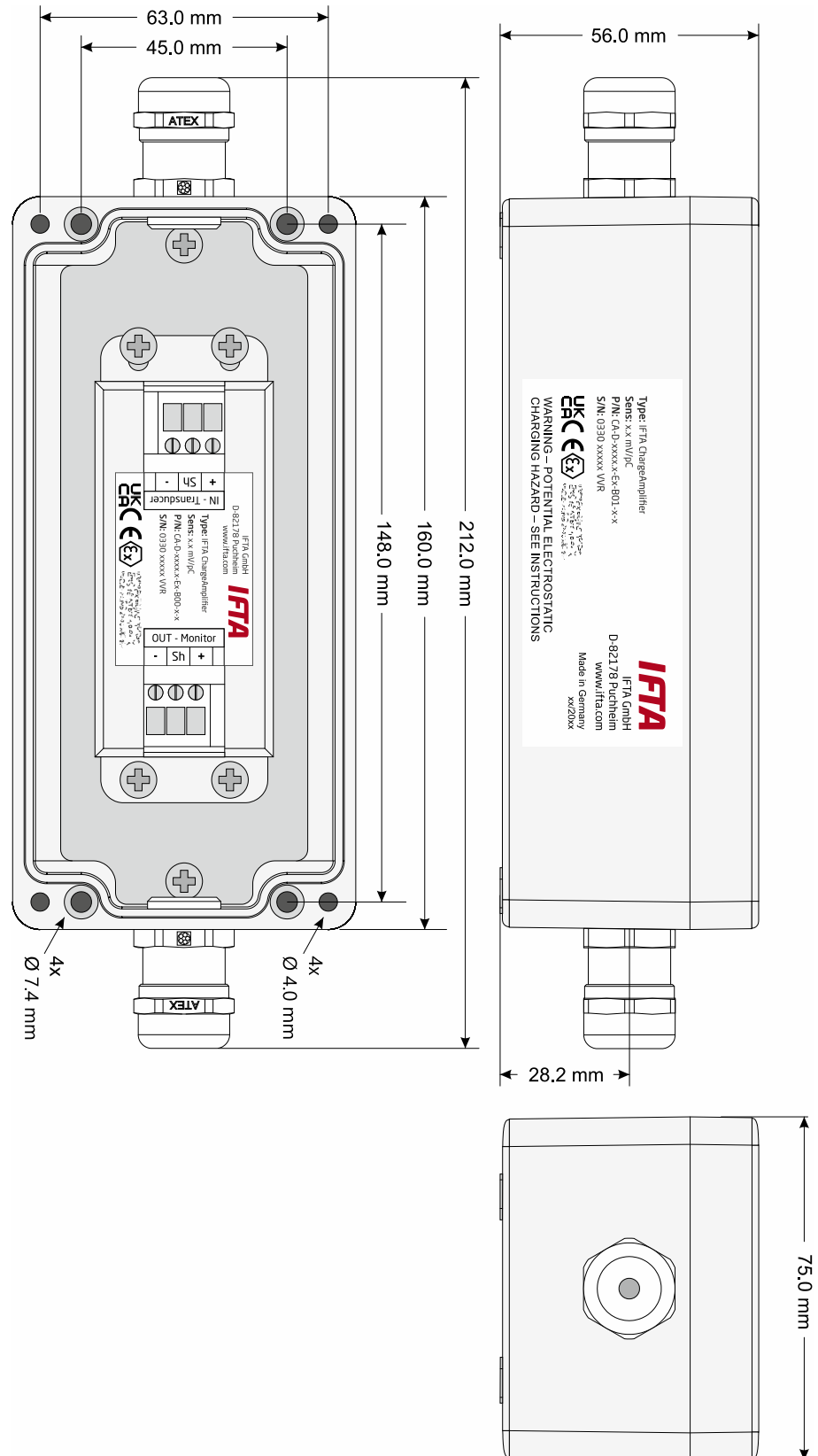


Figure 3: Dimensions of the industrial housing (figure similar, subject to modification)

Layout

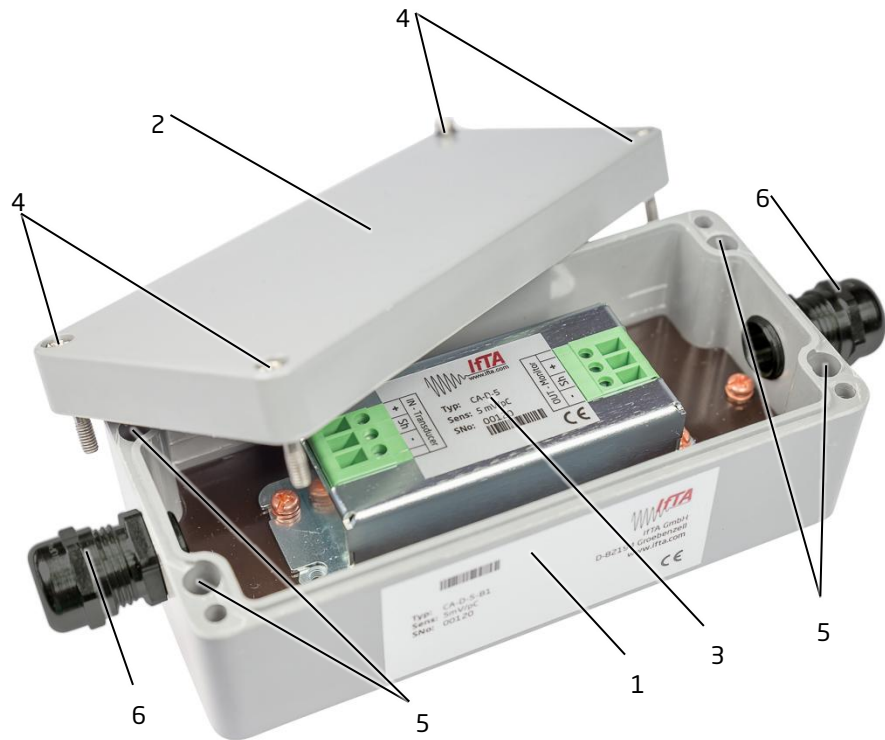


Figure 4: Layout of the industrial housing (figure similar, subject to modification)

(1) Industrial Housing

Ex certified industrial enclosure for the CA

(2) Cover

Cover of the industrial housing

(3) ChargeAmplifier

Mounted CA

(4) Cover Screws

Four screws to attach the housing cover

(5) Fixing Points

Four holes for the mounting of the industrial housing (for details regarding the mounting see chapter *Installing the CA with industrial Housing*)

(6) Stuffing Gland

For the installation of the cables

ChargeAmplifier with DIN Rail (B02)

Dimensions

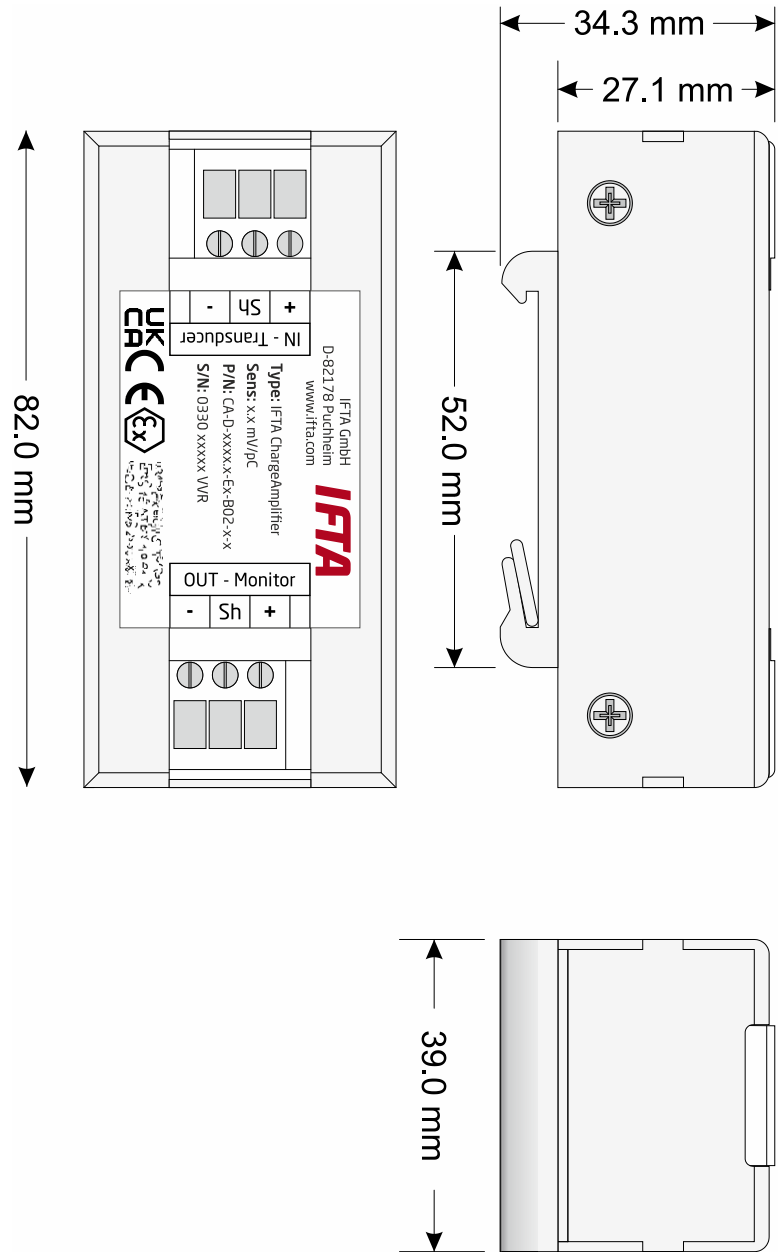


Figure 5: Dimensions of the CA with DIN rail (figure similar, subject to modification)

Layout

Beside the four fixing points, the layout is comparable to the version for wall mounting (see **Figure 2**).

Technical Description

Schematics

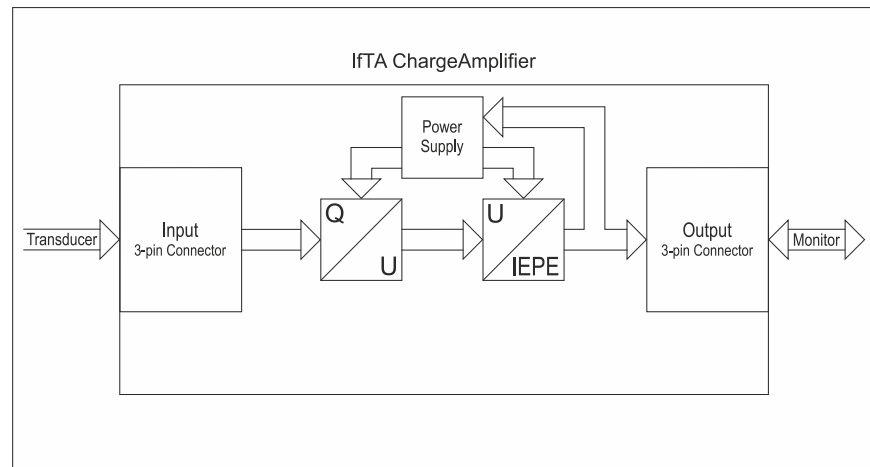


Figure 6: Schematics of the CA (figure similar, subject to modification)

Pin Assignment

For detailed information regarding the pin assignment see **Figure 7** and **Figure 8** below.

Measurement Chain Example

The CA is best used in a measurement setup with an **IFTA** system like the *ArgusOMDS*. This chapter includes two example configurations for both differential and single ended mode and the use with an *ArgusOMDS* system. The schematics are shown in the **Figure 7** and **Figure 8** below.

Using Differential CA with Single Ended Sensors



In case the CA is connected to a single ended sensor, as shown in the example below, and the differential version of the product is used (see **Ordering Information**), the amplitude will be halved.



The signal quality may vary from case to case, and the example setup shown for the single ended mode below is not always the ideal configuration. As an alternative, the sensor “-” can be connected to the CA’s “-” terminal instead of “SH”. Additionally, in some setups, bridging the CA’s “-” and “SH” terminals will lead to the best results. In the two latter cases the amplitude will not be halved.

Differential Mode

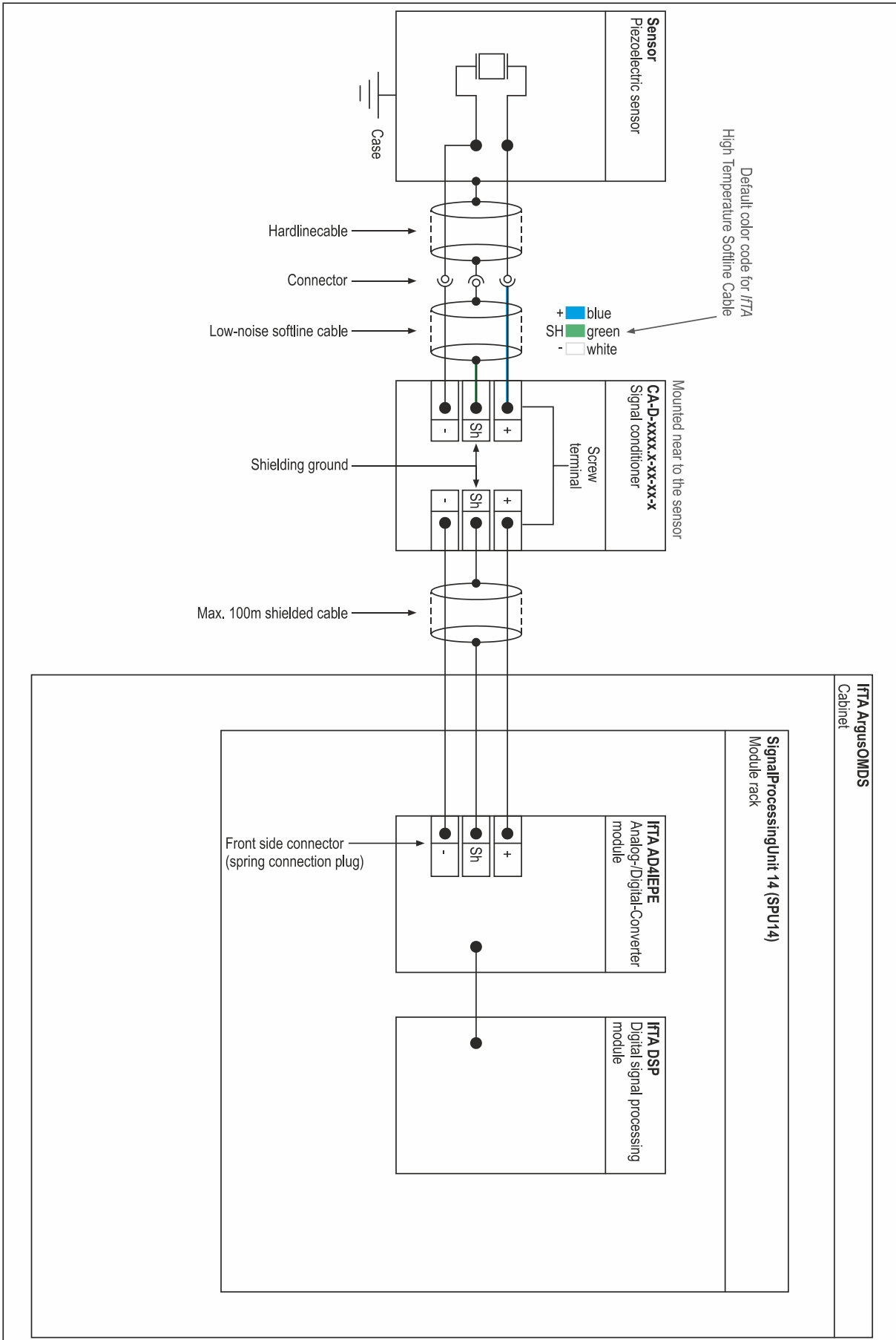


Figure 7: Schematics of the differential mode measurement chain (figure similar, subject to modification)

Single Ended Mode

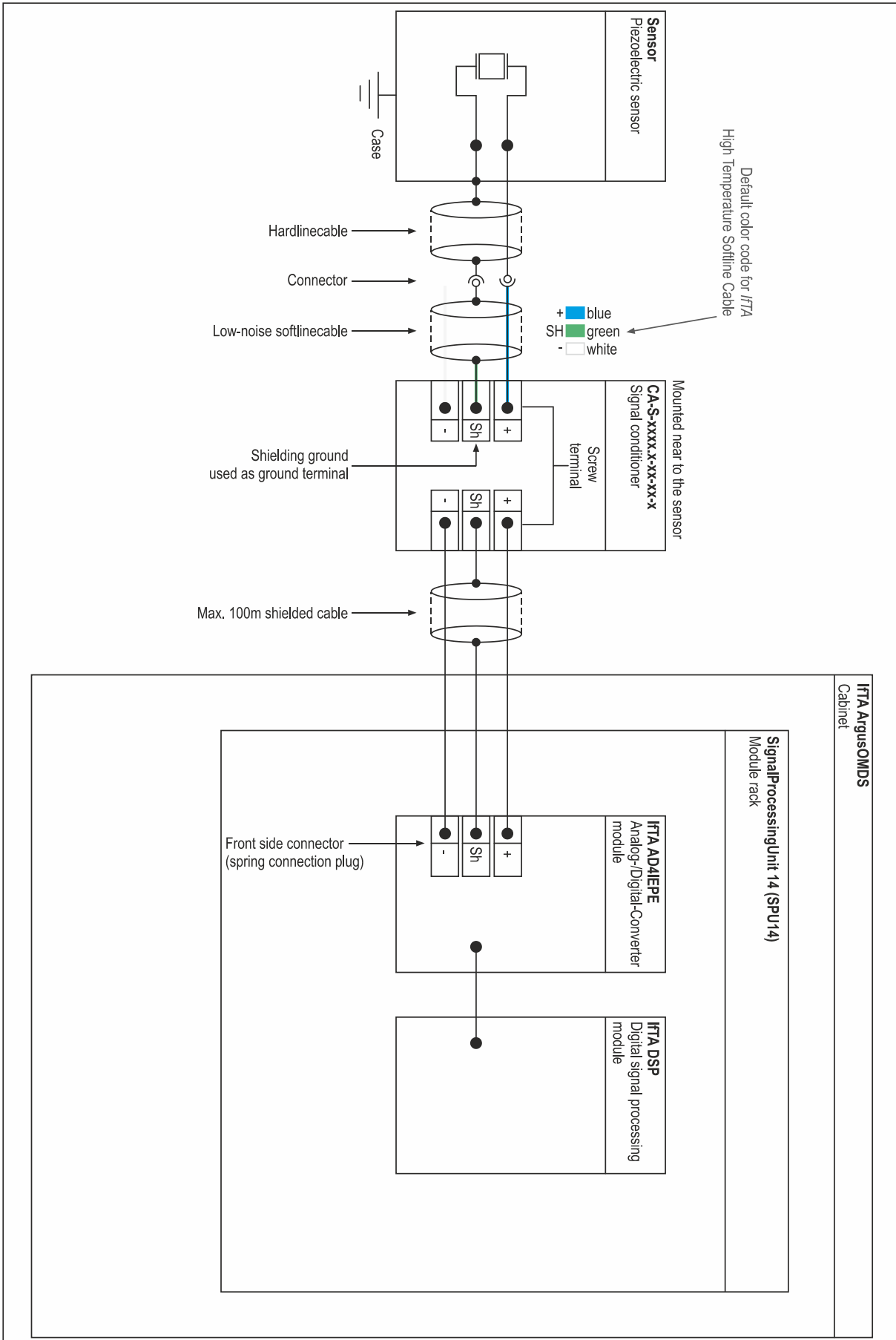


Figure 8: Schematics of the single ended mode measurement chain (figure similar, subject to modification)

Installation and Maintenance

Installing the CA with industrial Housing

Mounting of the industrial Housing

- (1) Choose a vibration-free place for the mounting.
- (2) Remove the cover of the industrial housing by unscrewing the four cover screws (see **Figure 4**).
- (3) Use the four fixing points (see **Figure 4**) to mount the housing on a suitable surface.
- (4) Continue with the steps described in the chapter below.

Connecting Cables



Risk of electrostatic discharge. Equipment for fixed installation where the installation is intended to minimize the risk from electrostatic discharge. Clean with damp cloth only. Not suitable for application with strong electrostatic charging processes.

Industrial Housing

- (1) Loosen the stuffing glands (see **Figure 4**).
- (2) Pass the cables through the stuffing glands into the designated position.
- (3) Tighten the stuffing glands and verify that the cables are securely fastened by the stuffing glands to ensure a proper sealing.
- (4) Continue with the next chapter to connect cables to the charge amplifier.

Mind that there are two different types of stuffing glands used as described below. The specification of them is as follows:

Type A - Sensor Side

Clamping range: 3 ... 6 mm

Tightening torque: 2 Nm

For the softline cables coming from the sensor side

Type B - Monitor Side

Clamping range: 5 ... 10 mm

Tightening torque: 3 Nm

For the outgoing cables to the monitor side

ChargeAmplifier



Before connecting anything to the charge amplifier, ensure to be familiar with the requirements as shown in the chapter *Specifications* and the terminal specifications as shown below.

The charge amplifier has two 3-pin screw terminals for the signal in- and output as shown in *Figure 2*. The terminal specification is as follows:

Valid cable types: 0.2 ... 2.5 mm² solid wire
 0.2 ... 2.5 mm² flexible
 0.25 ... 1.5 mm² flexible with end sleeve
 AWG24 ... AWG14

Stripping length: 9.0 mm

Tightening torque: 0.4 ... 0.5 Nm

- (1) Ensure that the cable type is fitting the described specification above.
- (2) Connect the cable to the corresponding pin of the two screw terminals (the exact pin assignment is shown in *Figure 7* and *Figure 8*).
- (3) Install the cover of the industrial housing again.

Installing the CA without Housing

Installation



The user must ensure that the CA will be installed into a certified housing for the mounting in potentially explosive atmospheres.



It is very important to ensure that the housings of the amplifiers do not touch each other and that there is no contact between them.

For this purpose, always install the wall mounting variant on a surface which is electrically non-conducting.

When using the DIN rail variant, it is recommended to install spacer between the amplifiers as shown in the **Figure 9** below.

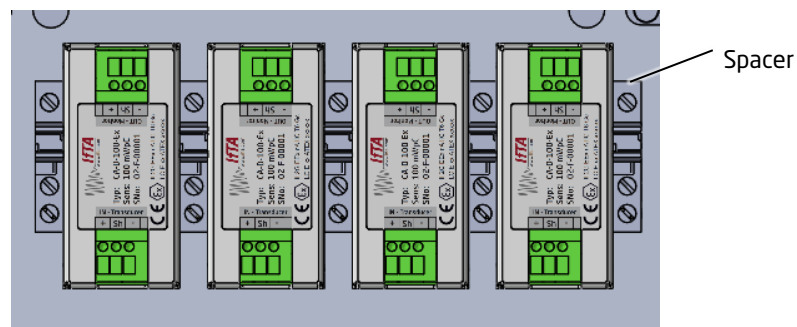


Figure 9: Recommended installation of the DIN rail Charge Amplifier (figure similar, subject to modification)

Charge Amplifier for Wall Mounting

Use the four fixing points (see **Figure 2**) to mount the CA into a suitable housing and mind the information in the chapter **Installation** above.

Charge Amplifier with DIN Rail

Use the DIN rail at the rear side to mount the CA into a suitable housing and mind the information in the chapter **Installation** above.

Connecting Cables

Please use the chapter **Connecting Cables - Charge Amplifier**.

Maintenance and Cleaning

The *ChargeAmplifier* has no actively turning parts nor other components which would require maintenance.

However, it is necessary to keep the device clean and free from dust using a soft cloth. Especially the connectors need to be clean to avoid any signal distortions.

It is also highly recommended to follow the calibration cycle mentioned in the chapter ***Product Description - General***. Recalibration at the **IFTA** laboratory can be offered - contact us for details.

Declarations and Certificates



EU Declaration of Conformity

Manufacturer Address: IFTA Ingenieurbuero fuer Thermoakustik GmbH
Junkersstrasse 8
D-82178 Puchheim
Germany

Product: IFTA ChargeAmplifier
Model: 0330-CA-D-xxxx.x-Ex-Bxx-x-x

This declaration of conformity is issued under the sole responsibility of the manufacturer.

The object of the declaration described above is in conformity with the relevant Community harmonisation legislation:

- | | |
|-------------------|---|
| 2014/30/EU | Electromagnetic Compatibility (EMC) |
| 2011/65/EU | Restriction of Hazardous Substances (RoHS) |
| 2014/34/EU | Equipment and protective systems intended for use potentially explosive atmospheres |

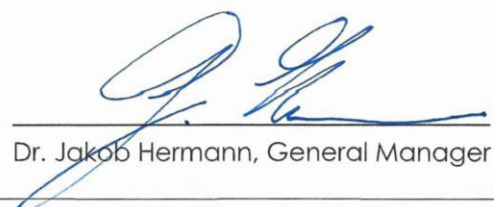
Compliance was proved by the application of the following standards:

- | | |
|-------------|---|
| EMC | EN 61326-1:2013
EN 55011:2009+A1:2010 |
| ATEX | EN IEC 60079-0:2018, EN 60079-7:2015
EN IEC 60079-7:2015/A1:2018
NB: Bureau Veritas Consumer Service Germany GmbH
NB Nr.: 2004
COC: EPS 15 ATEX 1 821 X |
| RoHS | EN IEC 63000:2018 |

The object of the declaration described above is in conformity with Directive 2011/65/EU of the European Parliament and of the Council of 8 June 2011 on the restriction of the use of certain hazardous substances in electrical and electronic equipment (OJ L 174, 1.7.2011, p. 88)

March 17, 2026 Puchheim

Date / Place

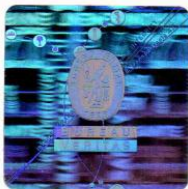

Dr. Jakob Hermann, General Manager



Certificate of Conformity

- (1)
- (2) Equipment and protective systems intended for use in potentially explosive atmospheres – **Directive 2014/34/EU**
- (3) Certificate Number
EPS 15 ATEX 1 821 X **Revision 2**
- (4) Equipment: Charge Amplifier
- (5) Manufacturer: IFTA Ingenieurbüro für Thermoakustik GmbH
- (6) Address: Junkersstrasse 8
82178 Puchheim
Germany
- (7) This equipment and any acceptable variation thereto are specified in the annex to this Certificate of Conformity and the documentation therein referred to.
- (8) Bureau Veritas Consumer Products Services Germany GmbH certifies based on a voluntary assessment that this equipment has been found to comply with the Essential Health and Safety Requirements relating to the design and construction of equipment and protective systems intended for use in potentially explosive atmospheres, given in Annex II of the Directive 2014/34/EU. The examination and test results are recorded in the confidential documentation under the reference number 13TH0249_02
- (9) Compliance with the essential health and safety requirements has been assured by compliance with:
EN IEC 60079-0:2018 **EN 60079-7:2015,**
EN IEC 60079-7:2015/A1:2018
- (10) If the sign "X" is placed after the certificate number, it indicates that the equipment is subject to special conditions of use specified in the annex to this certificate.
- (11) This Certificate of Conformity relates only to the design and the construction of the specified equipment in accordance with Directive 2014/34/EU. Further requirements of this Directive apply to the manufacture of this equipment and its placing on the market. Those requirements are not covered by this certificate.
- (12) The marking of the equipment shall include the following:

 II 3G Ex ec IIC T5 Gc



Certification department of explosion protection

Tuerkheim, 2026-03-23



Dr. Rainer Jany

Certificates without signature and seal are void. This certificate is allowed to be distributed only if not modified. Extracts or modifications must be authorized by Bureau Veritas Consumer Products Services Germany GmbH.

Bureau Veritas Consumer Products Services Germany GmbH
www.bureauveritas.de/cps

Businesspark A96
86842 Tuerkheim

certification.deu@bureauveritas.com
Certificate number EPS 15 ATEX 1 821 X

ZERT-0213-DEU-ZE-EX-V02/TEMP-0051-DEU-ZE-V02

Revision 2
1/3



Annex

(13)

(14) **Certificate of Conformity EPS 15 ATEX 1 821 X**

Revision 2

(15) Description of equipment:

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-B01-x-x is provided with a plastic enclosure
- c) Model 0337-ENC-02-I03-Ex-B04-x is provided with a metal enclosure

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				
			0100.0				
			0250.0				
			0000.5				
			0002.9				
			0052.6				
			0080.7				

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

Housing / Installation	Options
B00 Wall mounting	A High-pass filter and increased input range: Frequency range: 100 Hz ... 20 000 Hz (-3 db) Valid input ranges: ±200 ... ±10 000 pC
B01 With industrial Housing	
B02 DIN rail (TS35)	B-ZZ Spare



Certificate of Conformity EPS 15 ATEX 1 821 X

Revision 2

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

Dimensions	Interface	Housing
02 300x300x150mm	I03 8x 3-6mm & 8x 5-10mm M16 stuffing glands	B03 Stainless steel 316L B04 Steel RAL7035

Electrical data:

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

(16) Reference number: 13TH0249_02

(17) Special conditions of use:

For models "B00" or "B02" or without enclosure only:

The equipment must be installed in an enclosure that provides a degree of protection not less than IP54 in accordance with EN IEC 60079-0.

For models "B01" and B04 with enclosure only:

Equipment for fixed installations where the installation is intended to minimize the risk from electrostatic discharge (refer to instructions).

For model B04 only:

A protective conductor must be connected to the enclosure (refer to instructions).

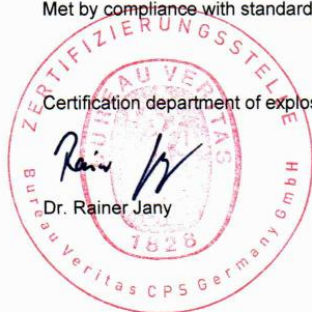
Ambient Temperature: $-20\text{ }^{\circ}\text{C} \leq T_{\text{amb}} \leq +75\text{ }^{\circ}\text{C}$

(18) Essential health and safety requirements:

Met by compliance with standards.

Certification department of explosion protection

Tuerkheim, 2026-03-23



Bureau Veritas Consumer Products Services Germany GmbH
www.bureauveritas.de/cps
ZERT-0213-DEU-ZE-EX-V02/TEMP-0051-DEU-ZE-V02

Businesspark A96
86842 Tuerkheim

certification.deu@bureauveritas.com
Certificate number EPS 15 ATEX 1 821 X
Revision 2
3/3



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 26.0019X** Page 1 of 3 [Certificate history:](#)
Status: **Current** Issue No: 0
Date of Issue: 2026-03-23
Applicant: **IFTA Ingenieurbüro für Thermoakustik GmbH**
Junkersstrasse 8
82178 Puchheim
Germany
Equipment: **Charge Amplifier**
Optional accessory:
Type of Protection: **Increased safety "ec"**
Marking: Ex ec IIC T5 Gc

Approved for issue on behalf of the IECEx
Certification Body:

Position:

Signature:
(for printed version)

Date:
(for printed version)



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:

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





IECEX Certificate of Conformity

Certificate No.: **IECEX EPS 26.0019X**

Page 2 of 3

Date of issue: 2026-03-23

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

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

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/ExTR26.0017/00

Quality Assessment Report:

DE/EPS/QAR26.0003/00



IECEx Certificate of Conformity

Certificate No.: **IECEx EPS 26.0019X**

Page 3 of 3

Date of issue: 2026-03-23

Issue No: 0

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-B01-x-x is provided with a plastic enclosure
- c) Model 0337-ENC-02-I03-Ex-B04-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 models "B00" or "B02" or without enclosure only:

The equipment must be installed in an enclosure that provides a degree of protection not less than IP54 in accordance with IEC 60079-0.

For models "B01" and "B04" with enclosure only:

Equipment for fixed installations where the installation is intended to minimize the risk from electrostatic discharge (refer to instructions).

For model B04 only:

A protective conductor must be connected to the enclosure (refer to instructions).

Ambient Temperature: $-20\text{ °C} \leq T_{\text{amb}} \leq +75\text{ °C}$

Annex:

ifta_13TH0249_EPS_26.0019X_00_Annex.pdf



Annex to: IECEx EPS 26.0019X Issue No. 0
 Applicant: IFTA Ingenieurbüro für Thermoakustik GmbH
 Apparatus: Charge Amplifier

EQUIPMENT:

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

Sensor Type	Amplification	Environment
S Single ended	0005.0 5mV/pC	St Standard
D Differential	0010.0 10mV/pC	Ex Explosive Ex ec
	0025.0 25mV/pC	
	0050.0 50mV/pC	
	0100.0 100mV/pC	
	0250.0 250mV/pC	
	0000.5 0.5mV/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 – 20 000 Hz (-3 db) Valid input ranges: ±200 ... ±10 000 pC
B01 With industrial Housing	
B02 DIN rail (TS35)	B-ZZ Spare

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

Dimensions	Interface	Housing
02 300x300x150mm	I03 Bx 3-6mm & 8x 5-10mm M16 stuffing glands	B03 Stainless steel 316L B04 Steel RAL7035

Appendix

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Technical Support

If you have any questions about the use of this product, please contact:

IFTA Ingenieurbuero fuer Thermoakustik GmbH

Junkersstrasse 8
82178 Puchheim
Germany

Tel: +49 89 8392719-30

Web: www.ifta.com

Mail: support@ifta.com

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IFTA Ingenieurbuero fuer Thermoakustik GmbH

Junkersstrasse 8
82178 Puchheim
Germany

Tel: +49 89 8392719-0
Fax: +49 89 8392719-11
Web: www.ifta.com
Mail: info@ifta.com