ArgusOMDS | DynaMaster | SmartProtect | DynaGo

COMPONENT MANUAL

Enclosure CA8

Industrial Ex Certified Housing for Measurement Equipment

004-B | 2026-07-23

Content

Content 2

Specific Safety Instructions 3

Field of Application ... 3
Additional Components ... 3
Safety Instructions ... 3
General ... 3
Protective equipotential bonding Conductor ... 3
Use in potentially explosive Atmospheres ... 4
For Version with intrinsically safe Input (Ex ec [ic]) ... 4
Note ... 4
Scope of Applicability ... 4

Product Description 5

Specifications ... 5
Features ... 5
Environmental ... 5
General ... 5
Stuffing Glands ... 6
Potentially explosive Atmospheres ... 6
Component Layout ... 7
Ordering Information ... 8
Dimensions ... 9

Installation 10

Mounting of the Enclosure ... 10
Installing Cables ... 10
Connecting Measurement Equipment ... 10

Appendix 11

Specific Safety Instructions

Before using this product, the user has to 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 *Enclosure CA8* is designated for the installation and protection of low-voltage measurement equipment (e.g. **IFTA** *ChargeAmplifier*). It has been designed for wall mounting in indoor industrial setups. Other uses are not permitted due to safety aspects.

Additional Components

Make sure to be familiar with the specific safety instructions of the components which are installed within the enclosure. Use the corresponding ***Component Manual*** for this purpose (e.g. ***CM_IFTA-CA*** for the **IFTA** *ChargeAmplifier*).

Safety Instructions

General

- In case of the possibility of high pressure developing within the enclosure, parts might burst. To avoid possible dangers related to this, the user must ensure corresponding safety arrangements.
- Avoid unnecessary opening of the door / front cover for a longer time to prevent dust and humidity from entering the enclosure.
- Ensure the door / front cover is closed properly after working on the enclosure.

Protective equipotential bonding Conductor

It is mandatory to connect a protective conductor to the *Enclosure CA8*. For this purpose, the housing provides a M6 threaded sleeve, welded into the enclosure. Using a commercially available cable lug, allows the connection of the mentioned conductor.

Please also note:

- Cable lug used, shall comply with *DIN 46234* standard for ring cable lugs
- The conductor needs a minimum of 4 mm² cross section
- The exploded drawing ***Figure 1*** below, shows the correct installation

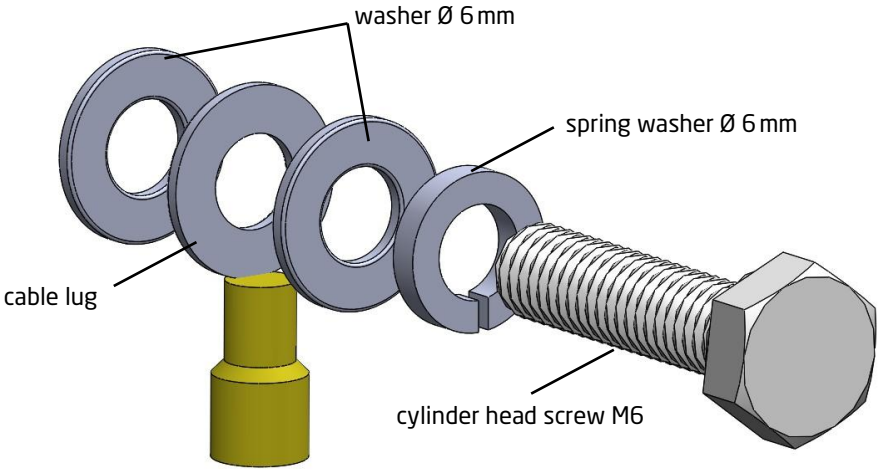

Figure 1: *Installation of the protective equipotential bonding conductor (figure similar, subject to modification)*

Use in potentially explosive Atmospheres

For further information regarding the certifications please see chapter ***Specifications - Potentially explosive Atmospheres***.

The certifications applicable to the product depend on the ordered variant specified by the ***Housing*** key shown in the ***Ordering Information*** chapter.

For Version with intrinsically safe Input (Ex ec [ic])

Mind special requirements as described in the ***Specifications*** chapter under ***Potentially explosive Atmospheres - For version with type of protection Ex ec [ic]***!

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

Note

Scope of Applicability

This manual was created for the hardware with product key ***0337*** (see ***Ordering Information***). The hardware variant can be determined with the help of the product label attached to the housing.

Product Description

The product is an industrial enclosure for the installation of measurement equipment. It is usable to install up to eight **IFTA** *ChargeAmplifier* for the **IFTA** measurement setup.

Specifications

Features

- Designed for wall mounting
- Certifications for potentially explosive atmospheres as described in the chapter ***Potentially explosive Atmospheres*** below
- With two DIN rails, each with a length of 210 mm
- Space for up to 8 **IFTA** *ChargeAmplifier* or comparable equipment
- 16 cable stuffing glands in total
- Two different gland types to support various cable types
- Delivery scope includes 4 wall mounting brackets for different mounting options (see chapter ***Mounting of the Enclosure***)

Environmental

Operating temperature:	-20 ... 75 °C
Humidity:	0 ... 50 % non-condensing at 40 °C < 40 °C permits higher levels

General

Material options:	Stainless steel 316L Steel, RAL7035-painted
Protection class:	IP 66
Weight:	6.2 kg
Dimensions:	See ***Figure 4***

Stuffing Glands

Type: M16

Type A

Clamping range: 3 ... 6 mm

Tightening torque: 2 Nm

Usually used for the incoming softline cables from the sensor side.

Type B

Clamping range: 5 ... 10 mm

Tightening torque: 3 Nm

Usually used for the outgoing cables (e.g. monitor side of an **IFTA** *ChargeAmplifier)*

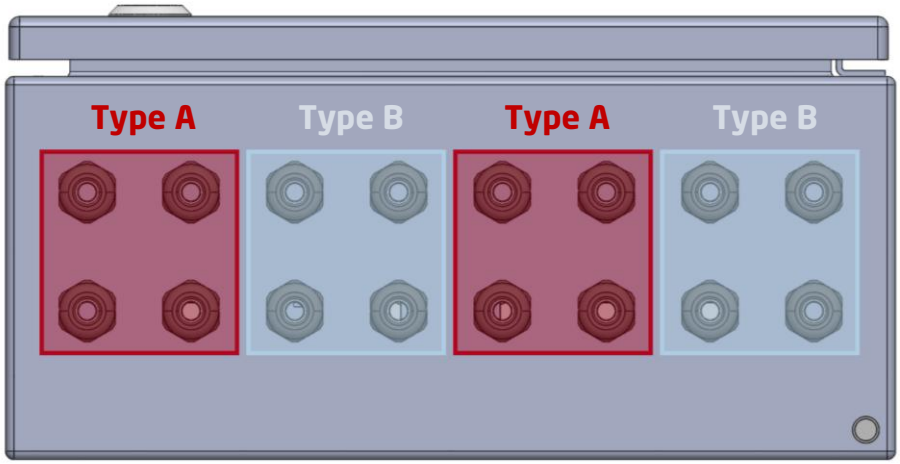

Figure 2: *Overview stuffing gland types (figure similar, subject to modification)*

Potentially explosive Atmospheres

For version with type of protection Ex ec

Increased safety

Ex marking: [1] II 3G Ex ec IIC T5 Gc
EPS 15 ATEX 1 821 X
IECEx EPS 26.0019X

For version with type of protection Ex ec [ic]

Associated equipment with intrinsically safe input

Ex marking:[1] II 3 (3) G Ex ec [ic] IIC T5 Gc
EPS 26 ATEX 1 131 X
IECEx EPS 26.0038X

U_o: 2.2 V I_o: 22 mA P_o: 25 mW C_o: 19 µF L_o: 9 mH

Only connect passive sensors to the input of the *ChargeAmplifier*!

[1] The actual certifications might differ between products and batches. It is always required to check the type label of the product to verify the actual certification number.

Component Layout

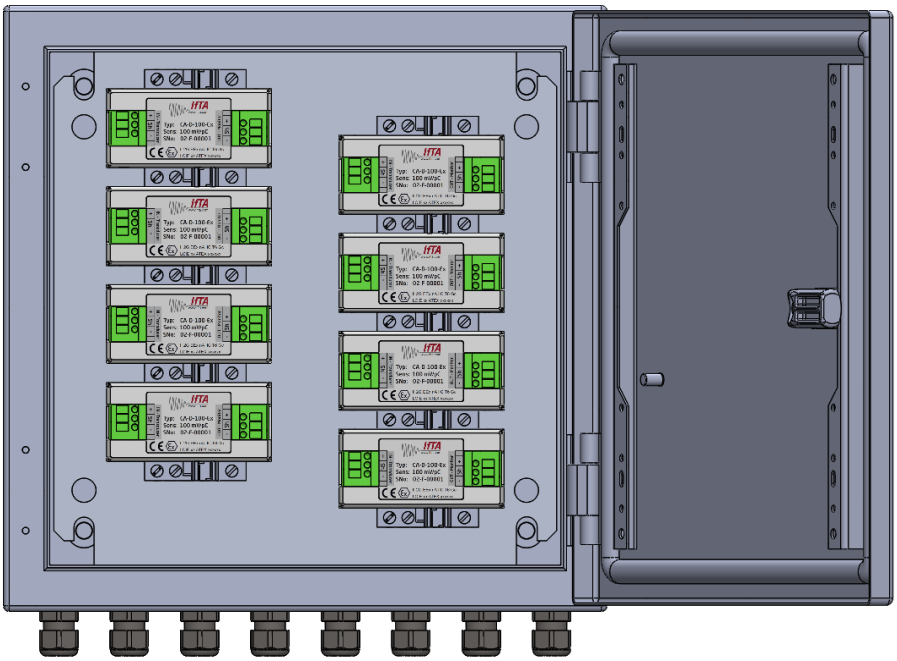

Figure 3: *Overview with an example installation of 8 IFTA ChargeAmplifiers (figure similar, subject to modification)*

Ordering Information

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

Default

Dimensions

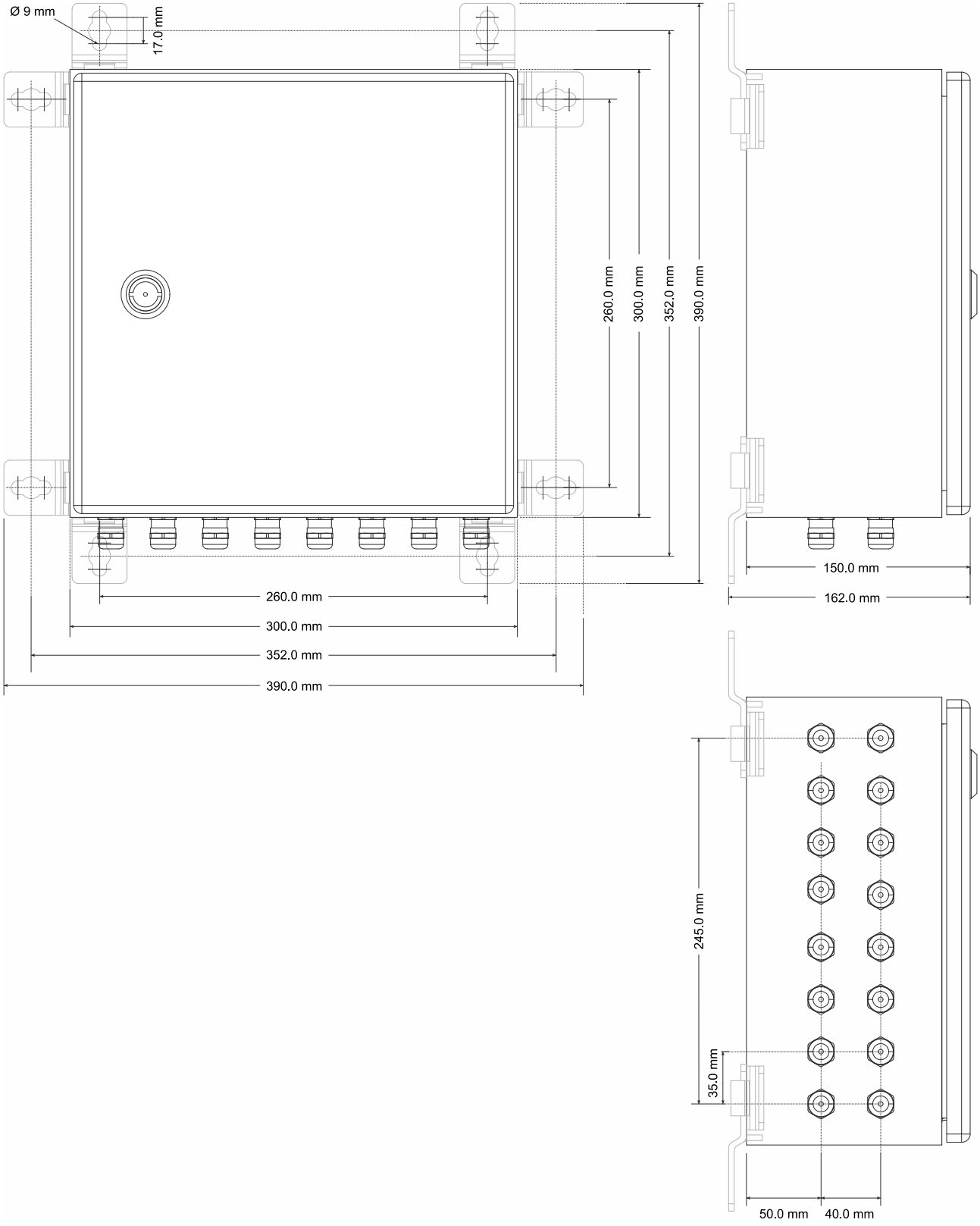

Figure 4: *Dimensions (figure similar, subject to modification)*

Installation

Mounting of the Enclosure

The wall mounting of the product is not designated to be used under dynamic loads.

(1) Choose a vibration-free place for the mounting.

(2) The mounting brackets can be either installed on the sides of the enclosure or on the top / bottom side.

(3) Use the fixing points located at the edges of the enclosure (see ***Figure 5***) to install the brackets accordingly.

(4) Install the housing on a suitable surface.

(5) Ensure the enclosure is installed properly.

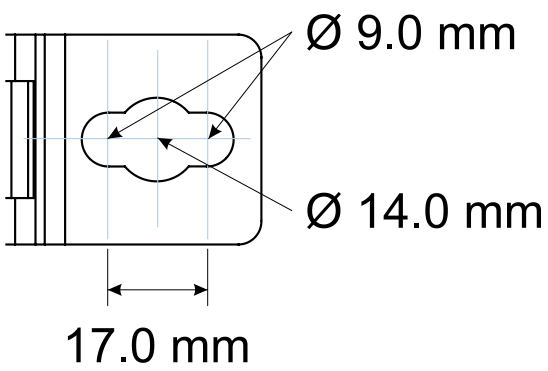

Figure 5: Wall mounting bracket of the *Enclosure CA8 (figure similar, subject to modification)*

Installing Cables

(6) Choose the correct type of gland (see chapter ***Stuffing Glands***).

(7) Loosen the stuffing glands at the bottom.

(8) Pass the cables through the stuffing glands into the designated position.

(9) Tighten the stuffing glands and verify that the cables are securely fastened by the stuffing glands to ensure a proper sealing (mind the max. tightening torque as shown in chapter ***Stuffing Glands***).

Connecting Measurement Equipment

Use the ***Installation*** chapter of the corresponding ***Component Manual*** for this purpose (e.g. ***CM_IFTA-CA*** for the **IFTA** *ChargeAmplifier*).

Appendix

IFTA GmbH is not liable for the content of this publication. The liability exclusion also refers to the economic use of this product and its suitability for this and other purposes. The user bears all risks which arise from the use of information contained in this publication.

IFTA GmbH is not liable for any damages, including consequential damages (*Folgeschäden*) arising from any defect in this documentation, even if **IFTA** GmbH has been notified of the possibility of such damages.

Furthermore, **IFTA** GmbH reserves the right to revise and modify this publication.

Trademarks

IFTA, **ARGUS, OMDS** and **AIC** are trademarks of **IFTA** Ingenieurbuero fuer Thermoakustik GmbH, registered in Germany.

Other trademarks mentioned in this manual, but not listed here, are trademarks of their respective owners.

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

Copyright

© Copyright 2026
IFTA Ingenieurbuero fuer Thermoakustik GmbH, Germany

All rights reserved.

This publication may not be copied, distributed or exploited in any other way without the express authorisation of **IFTA** Ingenieurbuero fuer Thermoakustik GmbH. In case of non-compliance you are liable to forbearance, damages, and criminal prosecution.

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