VINGTOR ⬭ STENTOFON
Exigo Ex Access Panels & Turbine Ex Intercoms
Mounting Manual

Product Overview

Mounting procedures are the same for all units in the Exigo and Turbine Ex series.

EAPFX-1	EAPFX-6	TFIX-1	TFIX-2	TFIX-3	TFIX-4
1023221511	1023221516	1008123010	1008123020	1008123030	1008123040

Contents of this Delivery

> **NOTE** *The unit comes with 4 blind plugs already mounted. The front frame is fastened with 2 socket-head cap M6 screws.*

10 socket-head cap M6 screws (+ 2 fastened to front frame)

1 Cable Gland M25 Ex e

1 Ex Unit

1 Cable Gland M16 Ex e

This Manual

Important Notes before Mounting

⚠ Improper installation and operation of the Ex unit will result in the invalidation of the warranty.

⚠ The enclosure/housing must not be opened when the unit is powered.

⚠ The installation and connection of Ex units may only be carried out by qualified/approved personnel
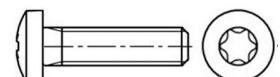
General Mounting Considerations

When the Ex unit is mounted directly onto a wall or mounting plate, it shall rest only on the fastening points provided for this purpose. The surface must be even and flat.

⚠ The unit must be mounted on a surface to prevent access from the rear of the unit.

⚠ Do not use countersunk screws.

⚠ Due to the cabinet material, use as low a tightening torque as possible when mounting the unit to the surface (1.5 Nm max.)

⚠ Washers are recommended.

⚠ Do not use more than 2.5 Nm torque when fastening the 12 screws into the front frame.

On Mounting Plate or Column - recommended screws:
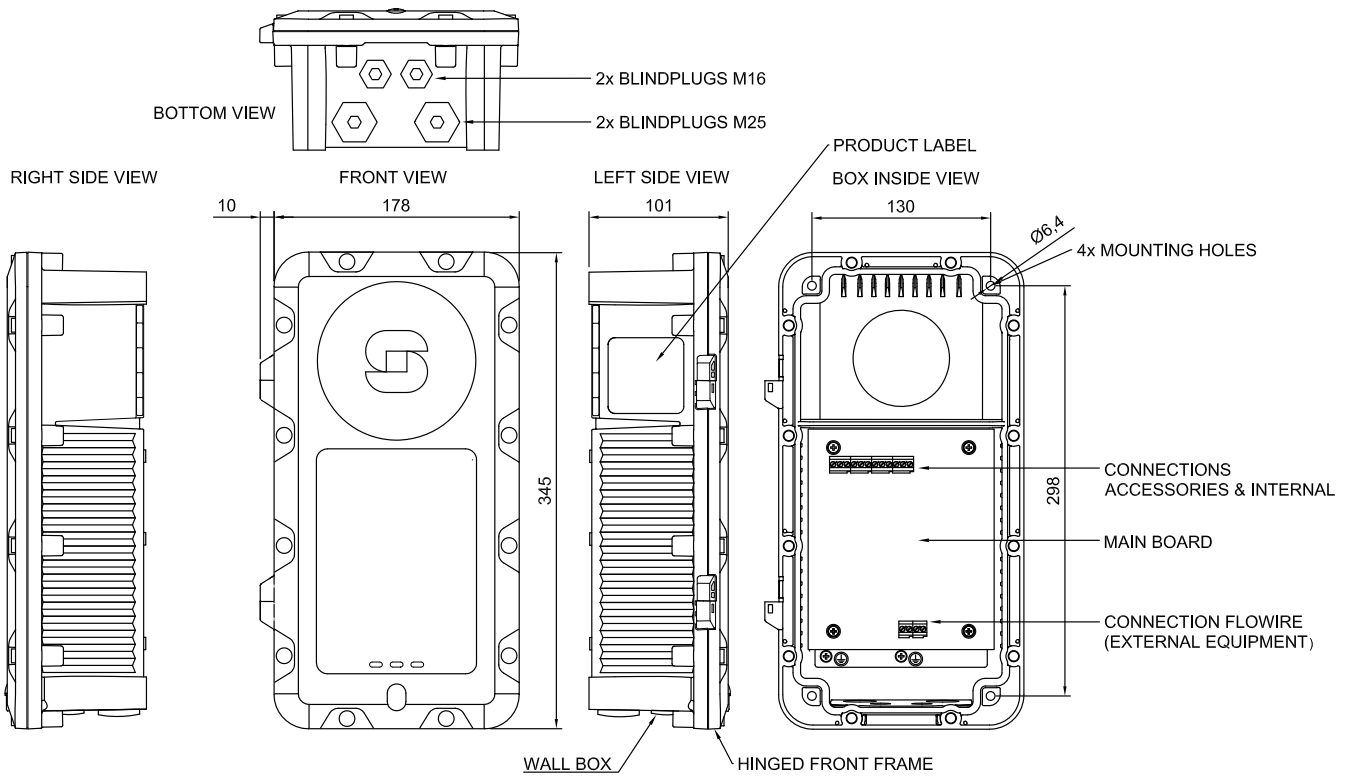M5 x 20 or 25 with Philips head DIN7985 or Torx. Head diameter: 10 mm.
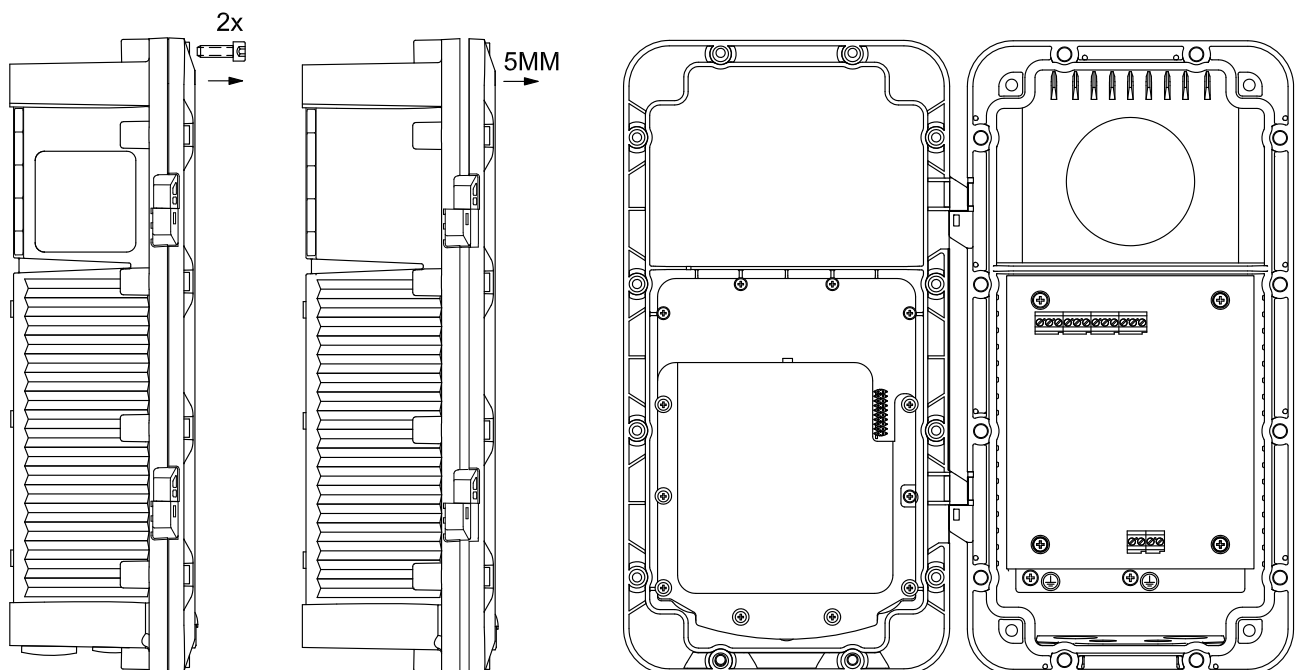
On Wall - recommended screws:
Panhead – DIN7981 for plug or wooden wall, etc. Head diameter: 10.8 B5.5 x 38 or 45 mm.

Dimensions

BOTTOM VIEW

2x BLINDPLUGS M16

2x BLINDPLUGS M25

RIGHT SIDE VIEW   FRONT VIEW   LEFT SIDE VIEW

PRODUCT LABEL

BOX INSIDE VIEW

10   178   101   130

Ø6.4

4x MOUNTING HOLES

345

298

CONNECTIONS
ACCESSORIES & INTERNAL

MAIN BOARD

CONNECTION FLOWIRE
(EXTERNAL EQUIPMENT)

WALL BOX

HINGED FRONT FRAME
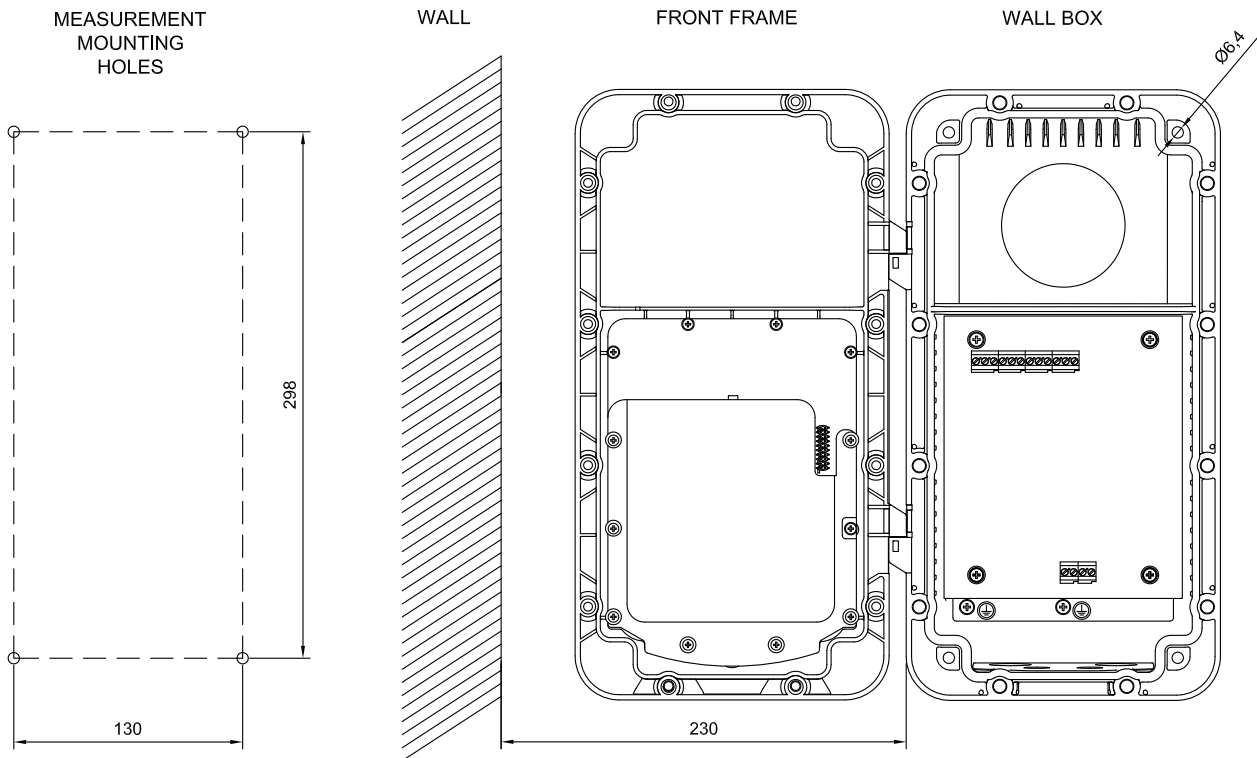
Opening the Enclosure

2x

5MM

1 Loosen the 2 screws securing the front frame to the on-wall box.

2 Open the enclosure by pulling the front frame out 5 mm, keeping it parallel to the on-wall box. This is necessary to get clearing for the hinges.

3 Pull the right side of the front frame to open the enclosure fully. Do NOT open the enclosure to the extent that cables between the front and back parts become taut.
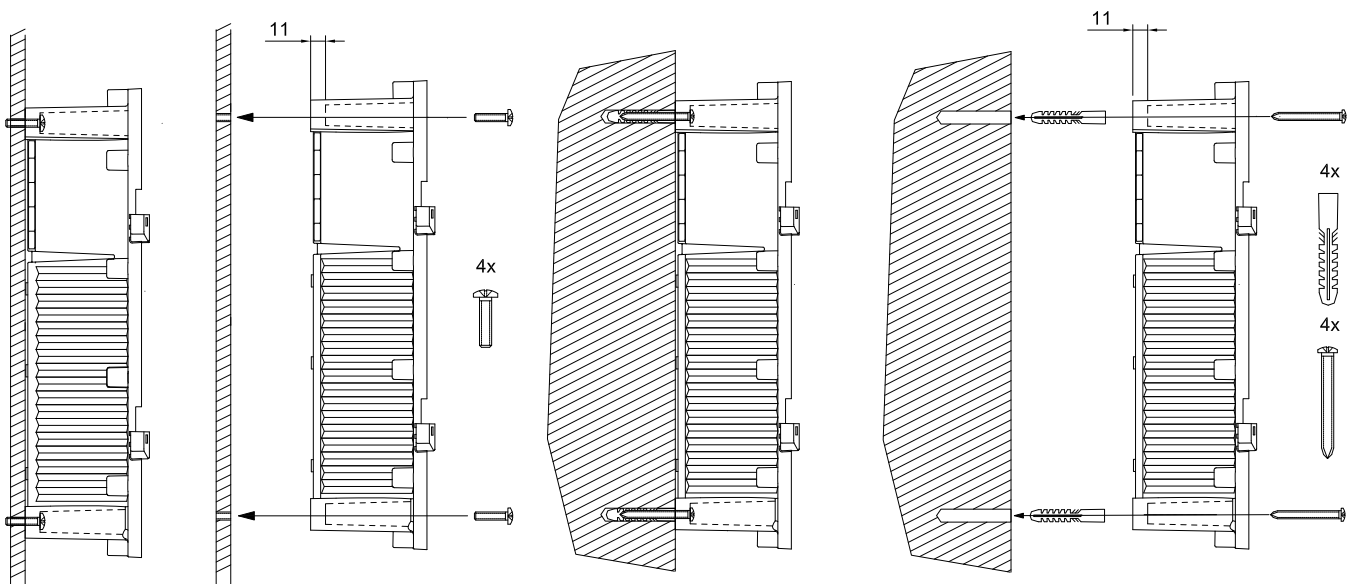
Mounting the Unit

MEASUREMENT MOUNTING HOLES | WALL | FRONT FRAME | WALL BOX

Ø6.4

298

130

230

4 Preparation for Drilling
The four mounting holes in the on-wall box are Ø6.4 mm. Distance: 298 x 130 mm. Size of hole to be drilled depends on whether it is wall or column mounting.

5 Location
Make sure there is a clearance of minimum 230 mm on the left for frame movement.

11

4x

11

4x

4x

6 Mounting Plate or Column
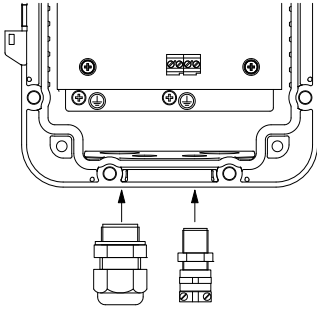Fix the unit to the mounting plate or column with 4 screws that fit the 4 screw holes in each corner of the on-wall box (Ø6.4 mm). Use M5 x 20 or 25 with Philips head DIN7985 or Torx. Head Ø: 10 mm.

7 Wall
Fix the unit to the wall with 4 screws that fit the 4 screw holes in each corner of the on-wall box (Ø6.4 mm). Use Panhead – DIN7981 screw for plug or wooden wall.
Head Ø: 10.8 B5.5 x 38 or 45 mm.

8 Mounting Cable Gland

Remove two blind plugs and insert one M16 Ex e and one M25 Ex e cable gland. Make sure to tighten sufficiently to attain IP-66 rating for watertightness, but be aware of plastic material limitations.
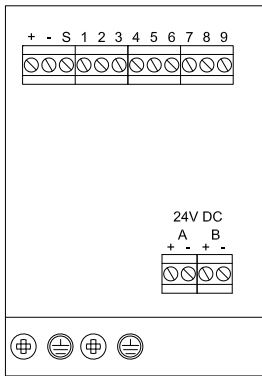

⚠️ In order to ensure the required minimum degree of protection, the cable glands must be tightened securely.

⚠️ Over-tightening can impair the degree of protection and damage the Ex unit.

⚠️ When tightening the cap nut of a cable gland, a suitable tool shall be used to prevent the gland from twisting.

⚠️ If there is an X sign after the Ex certificate number, this indicates that the equipment is subject to special conditions for safe use.

Special conditions for safe use:

The cable glands shipped with this product have an impact resistance of maximum 4J. Due to low impact resistance of the cable glands, the units shall only be installed in areas where there is a low risk of impact.

If cable glands supporting high impact (7J) are used, the X conditions do not apply.

Electrical Connections

+	Integrated microphone +
-	Integrated microphone -
S	Chassis GND
1	Audio accessories loudspeaker +
2	Audio accessories loudspeaker -
3	Audio accessories microphone +
4	Audio accessories microphone -
5	Audio accessories Push to Talk
6	Audio accessories Hook switch
7	Audio accessories GND
8	Loudspeaker + (TFIX-1, TFIX-2,TFIX-3,TFIX-4)
9	Loudspeaker - (TFIX-1, TFIX-2,TFIX-3,TFIX-4)

For complete documentation, see *Installation & Maintenance Procedures for Exigo Ex Access Panels & Turbine Ex Intercoms,* Doc. no. A100K11499.

⊕ ⏚		Groundclamp 1
⊕ ⏚		Groundclamp 2
A	+	24V DC Flowire 1
	-	24V DC Flowire 1
B	+	24V DC Flowire 2
	-	24V DC Flowire 2

Accessories & Spare Parts

Item Number	Item Name	Item Description
AK5850HS	AK5850HS	Ex-Approved Headset with plug
1008150025	TAX-2B	Ex-Approved Cable for Headset with PTT Button
1008150030	TAX-3	Ex-Approved Handset with PTT, unterminated
1023533511	EMMAX-1H	Exigo Handheld Industrial Ex Microphone
1000150040	TAX-4	Cable gland kit (10x) for TFIX and EAPFX
1023594100	EGA-1	Button Protection Covers (10x)
1008140250	TA-25	M6 screw kit

Related Documentation

Document No.	Documentation
A100K11499	Exigo & Turbine Ex Installation & Maintenance Procedures
A100K11460	Exigo Technical Manual
A100K11422	Flowire Installation & Configuration Manual
A100K11471	Exigo User Manual
A100K11194	Turbine Stations Configuration Manual

PRESAFE	14ATEX5209X	
IECEX	PRE 14.0029X	
Approved	EB / 18.02.2015	

The relevant certificates and declarations of conformity may be downloaded from www.zenitel.com/customer-service/library

VINGTOR STENTOFON   CE

EU Declaration of Conformity

The following equipment is declared to be in conformity according to the following directives and international standards when the equipment is installed and used in a manner consistent with the manufacturer's recommendations and reference documents.

Manufacturer:	**Zenitel Norway AS** **Bromsveien 17, N-3194 Horten, Norway**
Type of equipment:	**Ex Intercoms and Access Panels**

Models:

Product name	Product number
TFIX-1	1008123010
TFIX-2	1008123020
TFIX-3	1008123030
TFIX-4	1008123040
EAPFX-1	1023221511
EAPFX-6	1023221516

Electromagnetic Emissions: By Council Directive 2014/30/EU	**EN 61000-6-3:2007 + A1:2011** **EN 61000-6-4:2007 + A1:2011** **EN 60945:2002** **DnV 2.4:2006**
Electromagnetic Immunity: By Council Directive 2014/30/EU	**EN 61000-6-1:2007** **EN 61000-6-2:2005** **EN 60945:2002** **DnV 2.4:2006** **EN 50130-4:1995 + A1:1998 + A2:2003**
ATEX Directive: 2014/34/EU	**EN 60079-0:2012** **EN 60079-7:2015** **EN 60079-11:2012** **EN 60079-18:2015**
Marking:	⟨Ex⟩ **II 2(2)G Ex e ib mb [ib] IIC T4 Gb** **Ta: -20°C to +60°C** CE 0470
Type Examination Certificate:	**Presafe 14 ATEX 5209X** DNV GL Nemko Presafe AS, NB 2460 Veritasveien 3, N-1363 Høvik, Norway
Production Quality Assurance Notification:	**Nemko 05ATEX4259Q** Nemko AS, NB 0470 Gaustadalléen 30, 0314 Oslo, Norway

The manufacturer is solely responsible for making this declaration. The technical file is maintained at the company address listed above.

Name, Surname	**Thomas Hægh**
Position/Title	CTO
Place of issue	Oslo
Date of issue	2018-12-05

Ex Intercoms and Access Panels-CE.02