VINGTOR ⬢ STENTOFON
TCAS Turbine Compact Analog
Mounting Manual

1   Turbine Compact Analog Stations

This document describes the dimensions, mounting procedure, and connections of the Turbine Compact Analog Stations. ***Zenitel takes no responsibility for damages caused by improper or inadequate mounting.*** The Turbine Compact Analog product range comprises the following stations & accessories:

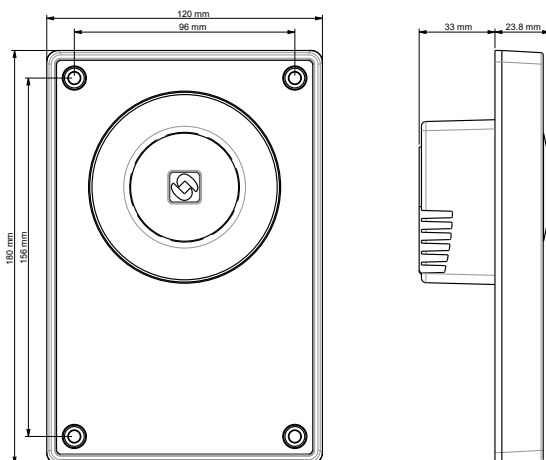| Item Number	Type	Item Name
1008114010	TCAS-1	Turbine Compact Analog - thermoplastic front plate
1008114020	TCAS-2	Turbine Compact Analog - stainless steel front plate
1008114030	TCAS-3	Turbine Compact Analog - thermoplastic front plate
1008140010	TA-1	Turbine On-Wall Back Box
1008140030	TA-3	Turbine Flush Mount 2-Gang Back Box
1008140050	TA-5	Turbine Bracket for Flush Mount Back Box

TCAS-1   TCAS-2   TCAS-3
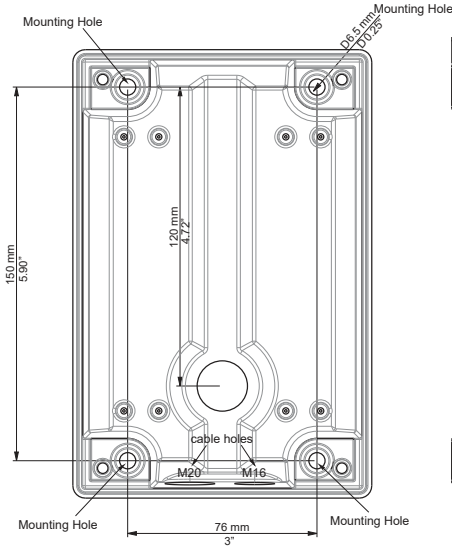
1.1   TCAS Compact Station Dimensions

2   On-Wall Surface Mounting

2.1   On-Wall Surface Mount Back Box - TA-1

(i) **IP-66 rating is only valid when TA-1 Back Box is used**
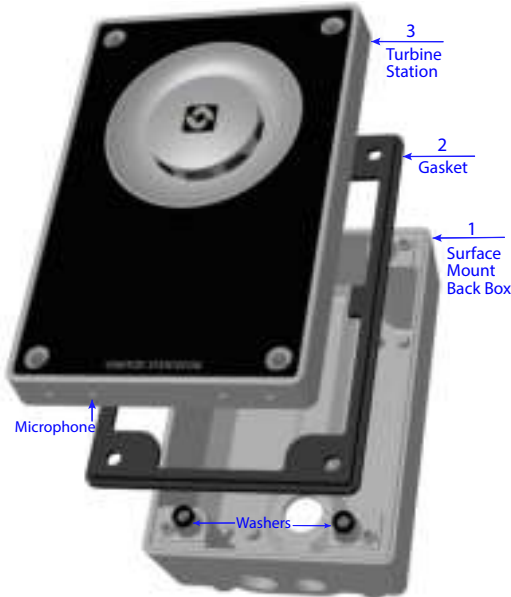
Mounting holes are to be drilled as shown.

Max. recommended screw diameter: ISO M6 or ANSI 1/4".

Screw length must be greater than 25 mm or 1".

A4 stainless steel socket head screws/bolts are recommended.

Max. recommended screw head diameter: 9.5 mm or 3/8".

Included:
4x M5 Fasterners
2x Grommets
1x M20 Cable Gland
4x Washers for extra protection against corrosive effects between surfaces to be placed at bottom of the 4 mounting holes.
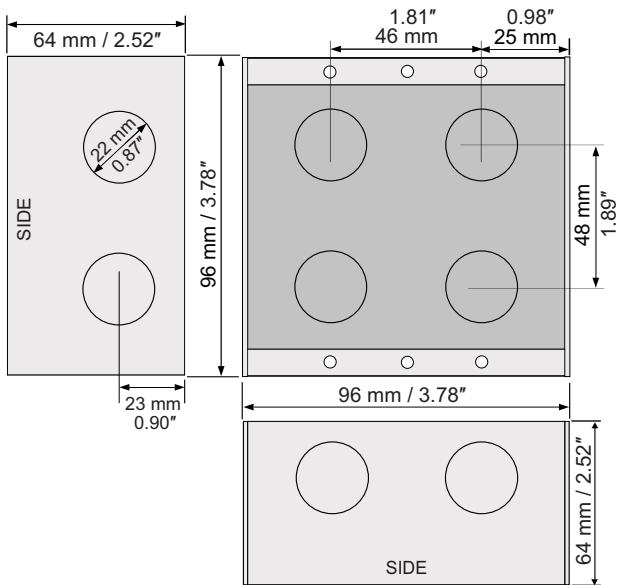
2.2   On-Wall Surface Mounting Procedure

(i) **The Gasket MUST be mounted to seal the station!**

(i) **Ensure the station is mounted vertically with the microphone aperture facing down.**

(i) **Ensure there is enough clearance under the station so that the microphone aperture is NOT smothered.**

(i) **Place the washers at the bottom of the 4 mounting holes on the back box.**

(i) **Use the grommets and M20 cable gland provided for the cable holes on the back box.**

1. Mount the back box onto the wall using A4 socket head screws
2. Fit the gasket onto the back box with the ridged side facing down
   – Plug the AlphaCom cable into the RJ-45 port on the station
3. Mount the Turbine station onto the back box with the M5 fasteners provided applying 1.5 Nm torque
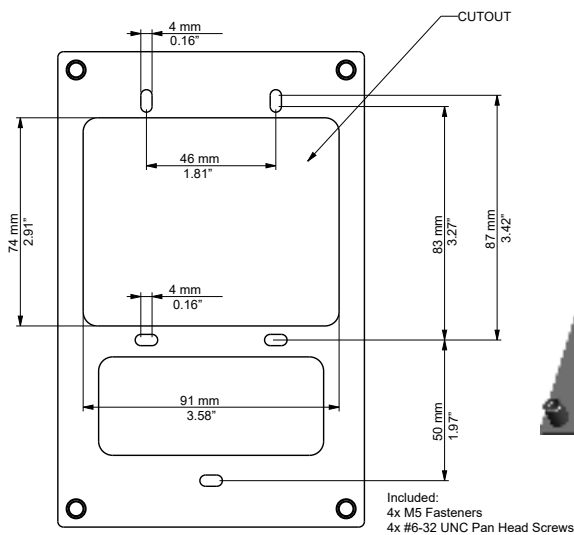
3   Flush Mounting

3.1   Flush Mount 2-Gang Back Box - TA-3

ⓘ It is recommended to utilize back boxes with weep holes at the bottom

3.2   Flush Mount Bracket - TA-5
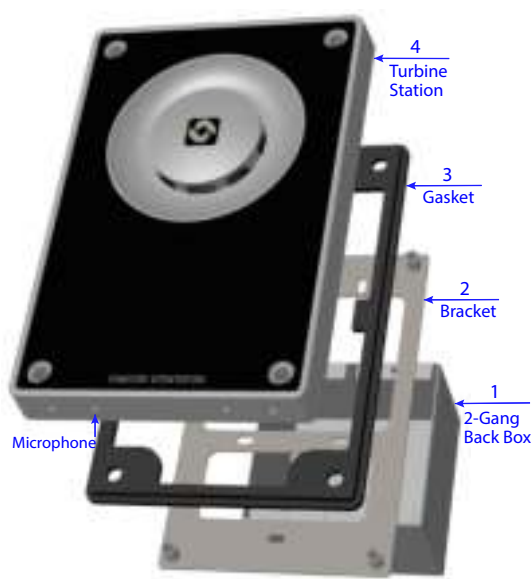
ⓘ **The TA-5 Bracket is mandatory for flush mounting.**

Included:
4x M5 Fasteners
4x #6-32 UNC Pan Head Screws

Fits US 2-GANG electrical boxes

Recommended screw diameter: up to M4 (5/32")
Use #6-32 UNC pan head screws for the TA-2 back box
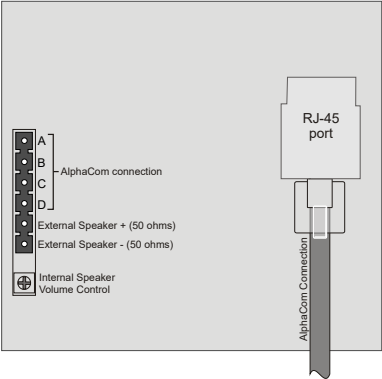
3.3   Flush Mounting Procedure

ⓘ **The Gasket MUST be mounted to seal the station!**

4 Turbine Station
3 Gasket
2 Bracket
1 2-Gang Back Box
Microphone

ⓘ **Ensure the station is mounted vertically with the microphone aperture facing down.**

ⓘ **Ensure there is enough clearance under the station so that the microphone aperture is NOT smothered.**

ⓘ **Apply silicone sealant all around the aluminum frame of the station, making sure to leave the microphone aperture open.**

1. Mount the 2-gang back box into the wall
2. Mount the bracket onto the back box with #6-32 UNC pan head screws
3. Fit the gasket onto the bracket with the ridged side facing down
   – Plug the AlphaCom cable into the RJ-45 port on the station
4. Mount the Turbine station onto the bracket with the M5 fasteners provided

4   Connections

The Turbine analog station has an RJ-45 port and 6 external connectors.

A, B, C, D – AlphaCom connection
External Speaker + (50 ohms)
External Speaker - (50 ohms)
Internal Speaker Volume Control
RJ-45 port
AlphaCom Connection

Power	Draws power from AlphaCom signal line.
RJ-45 port	AlphaCom connection
A, B, C, D wires	AlphaCom connection when RJ-45 port is not used.

ⓘ Use cables crimped with ferrules for terminal block connectors

To set up the analog station as an intercom:

1. Connect the RJ-45 port on the station to the AlphaCom server/exchange
2. Register the station in the AlphaCom server/exchange