MOUNTING MANUAL
Turbine Compact IP +

TCIS-1+
TCIS-2+
TCIS-3+
TCIS-4+
TCIS-5+
TCIS-6+

A100K12158

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Turbine Compact IP + Stations

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

| Item Number	Type	Item Name
1008311010	TCIS-1+	Turbine Compact IP - thermoplastic front plate
1008311020	TCIS-2+	Turbine Compact IP - stainless steel front plate
1008311030	TCIS-3+	Turbine Compact IP - thermoplastic front plate
1008311040	TCIS-4+	Turbine Compact IP - thermoplastic front plate with PMOLED display
100831050	TCIS-5+	Turbine Compact IP - thermoplastic front plate with PMOLED display
1008311060	TCIS-6+	Turbine Compact IP - thermoplastic front plate with PMOLED display
1008140010	TA-1	Turbine On-Wall Back Box
1008140020	TA-2	Turbine Flush Mount 2-Gang Double-Depth Back Box
1008140050	TA-5	Turbine Bracket for Flush Mount Back Box

| TCIS-1+ | TCIS-2+ | TCIS-3+ | TCIS-4+ | TCIS-5+ | TCIS-6+ |

Turbine Compact IP + Stations

120 mm

180 mm

49 mm 23.8
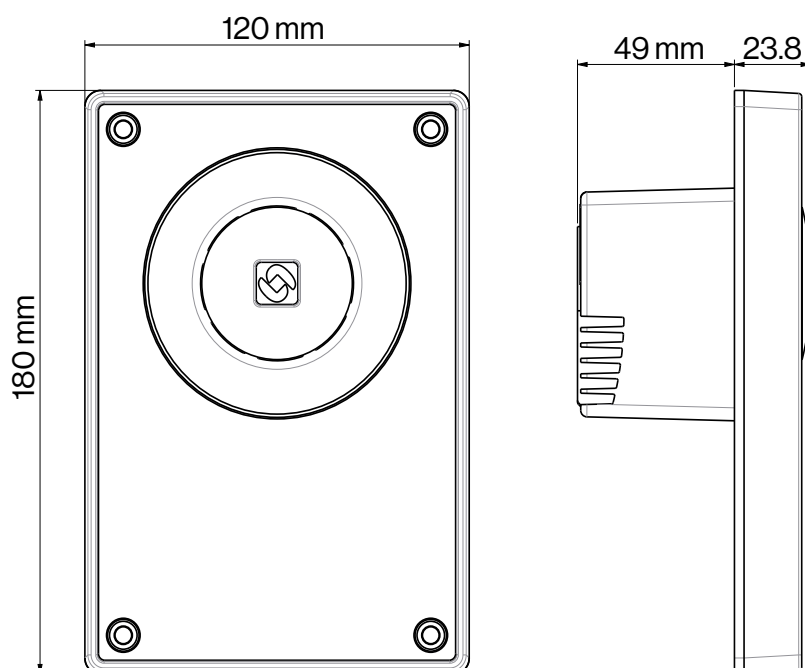
On-Wall Surface Mounting

Back Box - TA-1

⚠ **The IP-66 rating is only valid when TA-1 Back Box is used.**
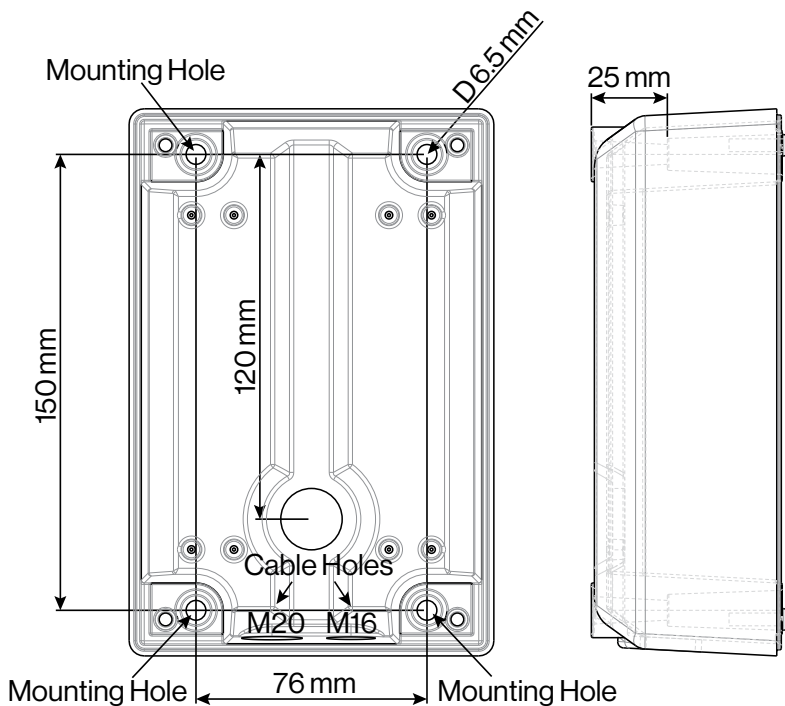

- Mounting holes are to be drilled as shown.
- Max. recommended screw diameter: ISO M6 or ANSI 1/4".
- Screw length must be greater than 25 mm or 1".
- A4 stainless steel socket head screws/bolts are recommended.
- Max. recommended screw head diameter: 9.5 mm or 3/8".

Included:
4x M5 fasteners
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.
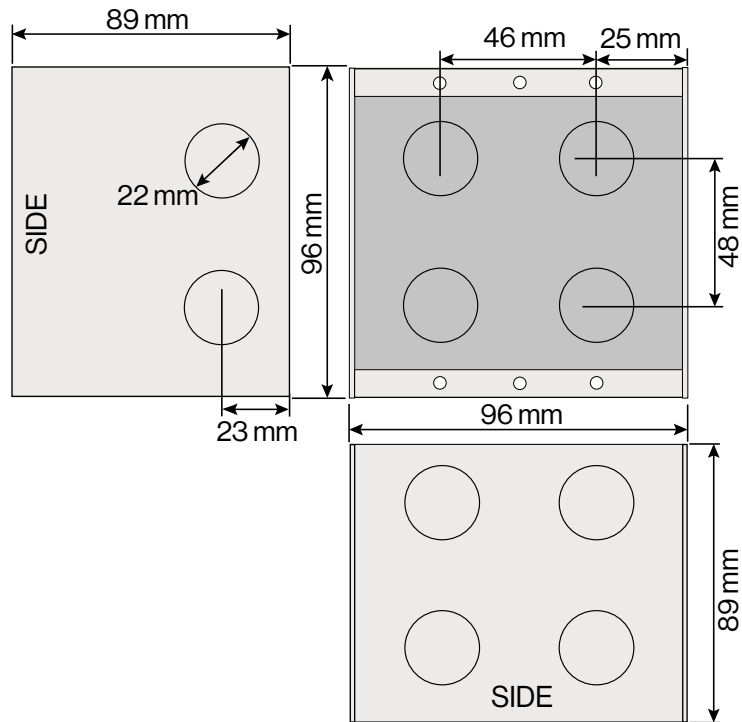
On-Wall Surface Mounting Procedure
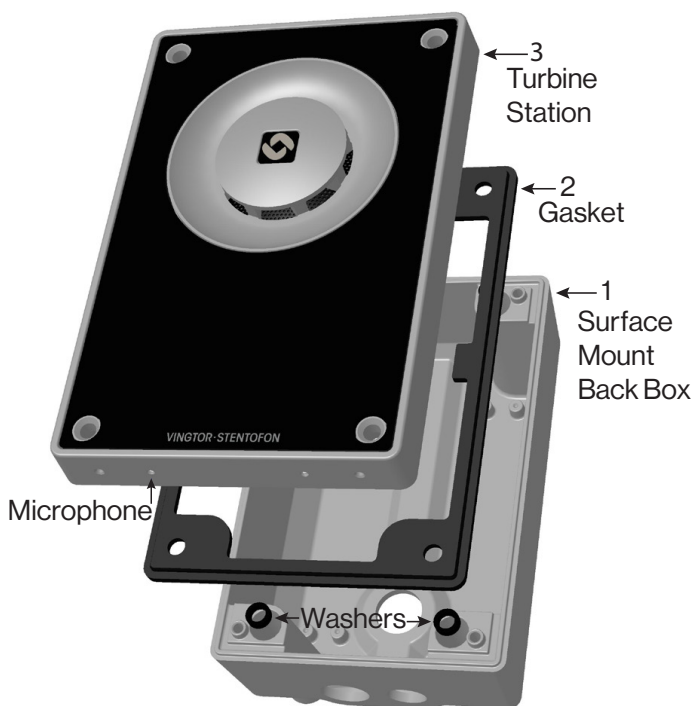
⚠ **The gasket MUST be mounted to seal the station!**

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

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

⚠ **Place the washers at the bottom of the 4 mounting holes on the back box.**

⚠ **Use the grommets and M20 cable gland for the cable holes on the back box.**

1. Mount the back box onto the wall using A4 socked head screws.
2. Fit the gasket onto the back box with the ridged side facing down. Then plug the Ethernet cable into the RJ-45 port on the station.
3. Mount the Turbine station onto the back box with the M5 fasteners, applying 1.5 Nm torque.
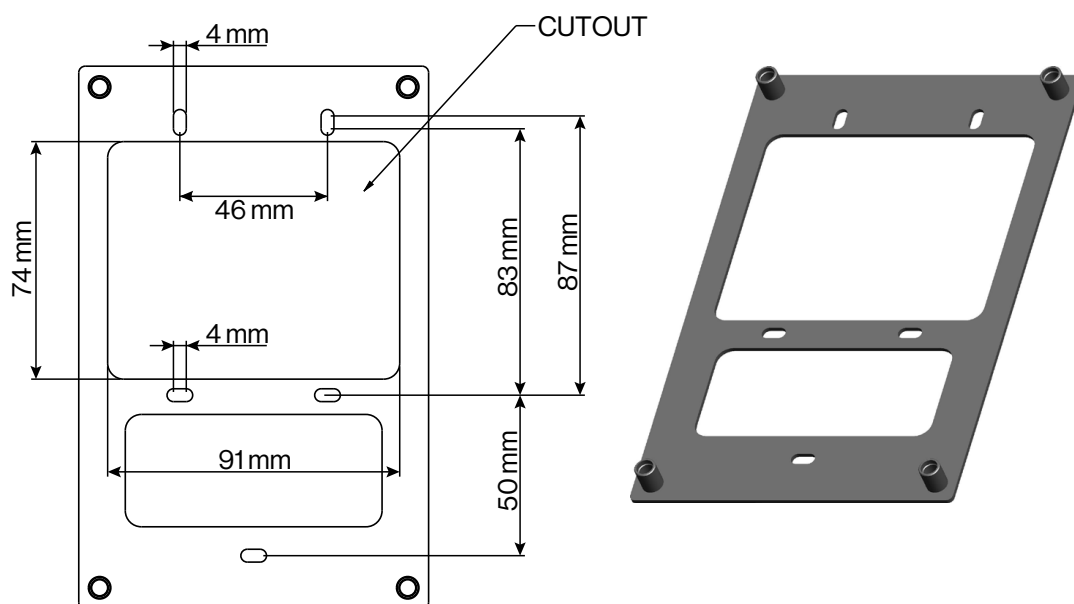
Flush Mounting

2-Gang Double-Depth Back Box - TA-2

⚠️ **It is recommended to utilize back boxes with weep holes at the back.**

89 mm

SIDE

22 mm

96 mm

23 mm

46 mm   25 mm

48 mm

96 mm

89 mm

SIDE

Flush Mount Bracket - TA-5

⚠️ **The TA-5 Bracket or other customized solution is required for flush mounting.**

4 mm

CUTOUT

46 mm

74 mm

83 mm

87 mm

4 mm

91 mm

50 mm

- 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.

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

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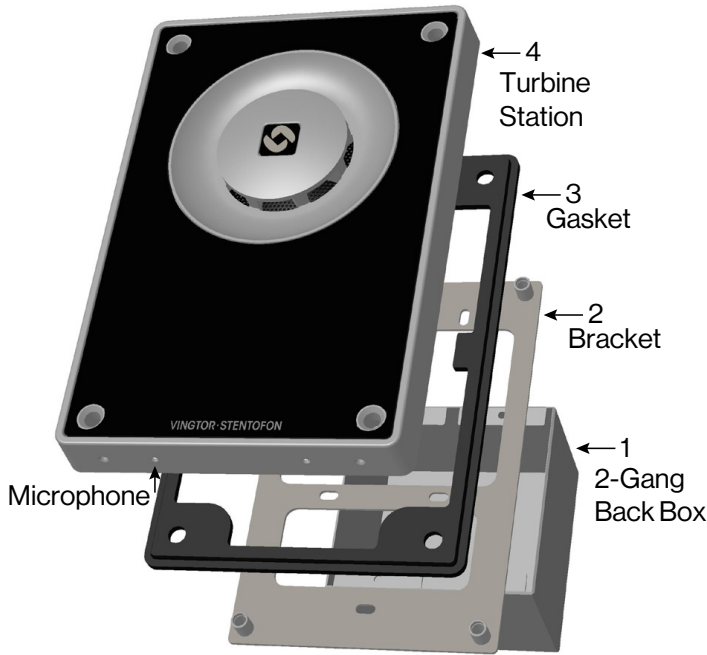
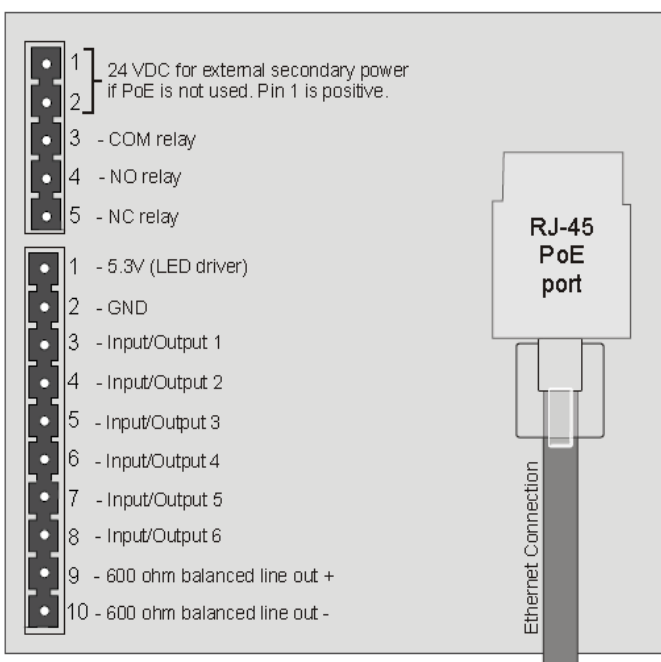4 Turbine Station
3 Gasket
2 Bracket
1 2-Gang Back Box
Microphone

⚠ **The gasket MUST be mounted to seal the station!**

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

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

⚠ **Apply silicone sealant all around the aluminium frame of the station. Make 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 #6-32UNC pan head screws.
3. Fit the gasket onto the bracket with the ridged side facing down. Then plug the Ethernet cable into the RJ-45 port on the station.
4. Mount the Turbine station onto the bracket with the M5 fasteners.

Connections

The Turbine Compact IP + station has a RJ-45 PoE/LAN port, and 6-pin & 10-pin external connectors.

⚠ **Use cables crimped with ferrules for terminal block connectors.**

1
2 } 24 VDC for external secondary power if PoE is not used. Pin 1 is positive.
3 - COM relay
4 - NO relay
5 - NC relay

1 - 5.3V (LED driver)
2 - GND
3 - Input/Output 1
4 - Input/Output 2
5 - Input/Output 3
6 - Input/Output 4
7 - Input/Output 5
8 - Input/Output 6
9 - 600 ohm balanced line out +
10 - 600 ohm balanced line out -

RJ-45 PoE port

Ethernet Connection

Ethernet/ Power	10/100 Mps Ethernet RJ-45 port for LAN (uplink) connection. Supports PoE (802.3af). Draws from either spare line or signal line.
Secondary Power	24V DC (16-48 V) secondary power is provided from an external adapter.
Relays	There is one Double Throw relay contact with 6W switching power. COM, NO, NC contacts are provided. Max: 250V AC/220V DC, 2A, 60W.
Input/Output	6 I/Os are available. Each I/O can be configured as either input, output or LED driver.
Audio Line Out	A balanced 600 ohm audio line with induction loop signal.

🔔
• When the Turbine Station is connected to the network, its IP address is automatically obtained from a DHCP server or an IP adress in the range 169.254.xx will be assigned.
• To make the station speak its IP address, press the call button on the station.

Hear, be heard, and be understood
– every time and everywhere

⚠ **The WEEE Directive does not legislate that Zenitel, as a 'producer', shall collect 'end of life' WEEE.This 'end of life' WEEE should be recycled appropriately by the owner who should use proper treatment and recycling measures. It should not be disposed to landfill.**

Many electrical items that we throw away can be repaired or recycled. Recycling items helps to save our natural finite resources and also reduces the environmental and health risks associated with sending electrical goods to landfill.

Under the WEEE Regulations, all new electrical goods should now be marked with the crossed-out wheeled bin symbol shown.

Goods are marked with this symbol to show that they were produced after 13th August 2005, and should be disposed of separately from normal household waste so that they can be recycled.