1 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:

<table>
<thead>
<tr>
<th>Item Number</th>
<th>Type</th>
<th>Item Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>1008111010</td>
<td>TCIS-1</td>
<td>Turbine Compact IP - thermoplastic front plate</td>
</tr>
<tr>
<td>1008111020</td>
<td>TCIS-2</td>
<td>Turbine Compact IP - stainless steel front plate</td>
</tr>
<tr>
<td>1008111030</td>
<td>TCIS-3</td>
<td>Turbine Compact IP - thermoplastic front plate</td>
</tr>
<tr>
<td>1008111040</td>
<td>TCIS-4</td>
<td>Turbine Compact IP - thermoplastic front plate with PMOLED display</td>
</tr>
<tr>
<td>1008111050/1008111901</td>
<td>TCIS-5/TCIS-C1</td>
<td>Turbine Compact IP - thermoplastic front plate with PMOLED display</td>
</tr>
<tr>
<td>1008111060</td>
<td>TCIS-6</td>
<td>Turbine Compact IP - thermoplastic front plate with PMOLED display</td>
</tr>
<tr>
<td>1008140010</td>
<td>TA-1</td>
<td>Turbine On-Wall Back Box</td>
</tr>
<tr>
<td>1008140020</td>
<td>TA-2</td>
<td>Turbine Flush Mount 2-Gang Double-Depth Back Box</td>
</tr>
<tr>
<td>1008140050</td>
<td>TA-5</td>
<td>Turbine Bracket for Flush Mount Back Box</td>
</tr>
</tbody>
</table>

1.1 TCIS Compact Station Dimensions

![TCIS Compact Station Dimensions Diagram]
2 On-Wall Surface Mounting

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

- Mount the back box onto the wall
- Fit the gasket onto the back box with the ridged side facing down
- Plug the Ethernet cable into the RJ-45 port on the station
- Mount the Turbine station onto the back box with the M5 fasteners provided applying 1.5 Nm torque

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”.
Optional washers for extra protection against corrosive effects between surfaces are provided.
They should be placed at the bottom of the 4 mounting holes.
Grommets and an M20 cable gland are provided.

2.2 On-Wall Surface Mounting Procedure

- The Gasket MUST be mounted to seal the station!
- 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.
- Place the washers at the bottom of the 4 mounting holes on the back box.
- Use the grommets and M20 cable gland provided for the cable holes on the back box.

1. Mount the back box onto the wall
2. Fit the gasket onto the back box with the ridged side facing down
   – 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 provided applying 1.5 Nm torque
3 Flush Mounting

3.1 Flush Mount 2-Gang Double-Depth Back Box - TA-2

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.
3.3 Flush Mounting Procedure

The Gasket MUST be mounted to seal the station!

1. Mount the 2-gang back box into the wall
2. Mount the bracket onto the back box
3. Fit the gasket onto the bracket with the ridged side facing down
   - Plug the Ethernet cable into the RJ-45 port on the station
4. Mount the Turbine station onto the bracket with the M5 fasteners provided

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.

The TCIA-2 has different connections

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

Connections

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

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

Use cables crimped with ferrules for terminal block connectors

When the Turbine Station is connected to the network, its IP address is automatically obtained from a DHCP server or an IP address in the range 169.254.x.x will be assigned.

To make the station speak its IP address, press the call button on the station.