





The Turbine Series provides innovative features and a cutting edge design that will change the way we look at intercom. All IP stations in the STENTOFON Turbine Series utilize the latest technology and STENTOFON's 65+ years of experience in the audio communications industry to create stunning audio quality.

www.stentofon.com

### REGISTER ONLINE FOR OUR NEWSLETTER



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# WHY TURBINE?

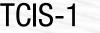
The Turbine Series is designed for the most demanding environments where communication is critical.

The stations are extremely robust - they are dust-proof. and water and vandal resistant, with all electronics enclosed by a 3mm thick, aluminum die-casted base. This base is even further reinforced by a faceplate in either stainless steel or thermoplastic.

This durability, in addition to its superior audio quality and modern design make the Turbine Series revolutionary in its approach to audio communications.

## dare we call it an intercom?





1008111010

TCAS-1 (Analog) 1008114010

- Yellow thermoplastic front plate with one button + M and C
- Perfect for Industrial Applications









STENTOFON ALPHACOM XE







5

### **EXCEPTIONAL AUDIO**

- A world's first Open Duplex capabilities at output levels of up to 95dB
- Extreme sound pressure levels of up to 105dB
- Automatic Volume Adjustment
- Active noise cancellation capable of extracting ambient noise levels louder than speaker's voice
- Automatic gain control constant volume levels are maintained regardless of the speaker's distance from the station.

## **EXTREME ROBUSTNESS**

- IP66 and impact resistance between IK 8 and 10
- All electronics are covered by a 3mm thick, aluminum die-casted base
- This base is even further reinforced by a faceplate in either stainless steel or thermoplastic
- Vandal Resistant LED backlit buttons
- Digital MEMS microphone is completely immune to electromagnetic radiation interference.
- Functions at extreme temperatures at both ends of the spectrum, from -25°C to up to 60°C



REFINED DESIGN

Refined, minimalist Scandinavian

Easy, straightforward and

speaker grille

understandable interface

Acoustically superior circular











# **VERSATILITY**

- Comprehensive range
- Ideal for many environments and situations
- Stations with both thermoplastic and stainless steel faceplates available

## DISABILITY ACT REQUIREMENTS

- Induction loop capabilities
- Automatic gain control
- Superior audio quality

TCIS-4

- Backlit LED buttons
- Standardized button icons
- Active noise cancellation

Vandal resistant fasteners	Stainless steel, security TORX (with pin), T25
Loudspeaker poke protection, large diameter object	3D cast aluminum speaker grille
Loudspeaker poke protection, small diameter objects	Stainless steel mesh, acoustically transparent
HARDWARE	
Ethernet connector	1 x RJ 45
All other connectors	Tool less, spring loaded, vibration proof terminals
General inputs and outputs	6 (configurable)
Outputs	12mA as LED drivers
Change-over relay (NO+NC+COM)	Max: 250VAC/220VDC, 2A, 60W
Power options	PoE and or external power supply
PoE (power over Ethernet)	IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)
External power supply	24 VDC (16 – 48 V)
Power consumption	Idle 1.8W, max 12W (depending on volume)
Audio line out / induction loop signal	600 Ohm
Button backlight	LED
Call indication	lcons / colors according norm for hearing impaired
For Stations TCS-4, TCS-5, TCS-6	
Door open indication	lcons / colors according norm for hearing impaired
Display technology	PMOLED
Display contrast	20000:1

Faceplate material

Base / frame material

Gasket material

Button material

Button travel length

Button activation force

Button push-cycles before failure

Electronics cover material

Fastening bracket material

### \*Tested with Audio Precision SYS 2722 equipment

1008111040

Dimensions (HxWxD)	180 x 120 x 70 mm / 7.1" x 4.7" x 2.8"
Dimensions after flush mount	180 x 120 x 20 mm / 7.1" x 4.7" x 0.8"
Dimensions with on wall box	180 x 120 x 82 mm / 7.1" x 4.7" x 3.3"
Weight	0.8 - 1 kg / 1.8 - 2.2 lbs.

G.711, G.722

200 Hz - 7000 Hz

Adaptive jitter filter

Local tone generator Audio mixing - 3 channels

Modes: Full open duplex, switched open duplex

Sound level detection (scream alarm)

Digital MEMS, omnidirectional microphone

Automatic gain control (microphone)

IP TECHNICAL SPECIFICATIONS

< 5%\*

Audio quality - speech transmission

index (STI) - at 70 dB

(THD+N) - at 70 dB

musical noise

percentage articulation loss

of consonants (Alcons) - at 70 dB

+ noise, without noise reduction

SPL rated power at 1m in half duplex

SPL rated power at 1m in program

distribution and announcement

Noise cancelling - suppression of

Noise cancelling - suppression of

Noise cancelling - suppression of

Frequency range, G.722 Codec

rapidly changing noise

Internal speaker amplifie

Microphone technology

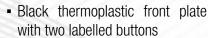
Audio technology

Audio quality - total harmonic distortion | < 2%\*

SPL rated power at 1m in open duplex 95 dB\*

Audio quality -

Dimensions (HxWxD)	180 x 120 x 70 mm / 7.1" x 4.7" x 2.8"	
Dimensions after flush mount	180 x 120 x 20 mm / 7.1" x 4.7" x 0.8"	
Dimensions with on wall box	180 x 120 x 82 mm / 7.1" x 4.7" x 3.3"	
Weight	0.8 - 1 kg / 1.8 - 2.2 lbs.	



- Unique labelling solution with PMOLED display
- Perfect for Building Security and **Public Environments**



Viewing angle

Display brightness

TCIS-6

100 000 hours (11.5 years)

 Black thermoplastic front plate with scrolling unit for calling to an unlimited number of places

3 mm / 0.12" PMMA, anti reflective coating, color

3 mm / 0.12" Aluminum alloy - A413.0, AlSi12Se,

1008111060

printed on back side

anodized and painted

Silicone rubber

3 mm / 0.12" PMM/

SECC Steel

1.25 mm

350 qf

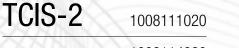
300 000

160 deg

120 cd/m2

Polycarbonate (translucent

- PMOLED display
- Perfect for Building Security and **Public Environments**



- 1008114020 TCAS-2 (Analog)
- Stainless steel front plate with one button
- Perfect for Building Security and **Public Environments**



1008114030 TCAS-3 (Analog)

1008111030

 Black thermoplastic front plate with one button

TCIS-3

 Perfect for Building Security and **Public Environments** 



Black thermoplastic front plate

with one labelled button Unique labelling solution with PMOLED display

 Perfect for Building Security & **Public Environments** 

. Jensen D. Dennis

TCIS-5