UL Certified Intercom
NEC Certified
Alcatel-Lucent Certified
CISCO Certified
Avaya Certified
Turbine
Door Intercom
IP66
IK10
Automatic Volume
HD Voice
Automatic Gain Control
Active Noise Cancelling
Voice Activity Detection
• Vandal resistant SIP and IP intercom
• Audio Presence - crystal clear HD audio
• Amazing sound pressure levels when needed with automatic volume adjustment
• Background noise cancellation
• Dirt, dust and water resistant - rating IP-66
• Built to last with robust die-cast aluminum frame - rating IK 10
• Supports wide set of IP and networking standards
• Stainless steel front plate with one button
• Ideal for Building Security and Public Environments

All IP stations in the Vingtor-Stentofon Turbine series utilize the latest technology to create unparalleled audio quality. Some of the many features include: HD voice quality, Open Duplex, Active Noise Cancellation, MEMS microphone, a 10W Class D amplifier and our unique speaker grille design. These features, in conjunction with Vingtor-Stentofon's 65+ years of experience with acoustic technology are only a few of the many factors that contribute to our superior audio quality.

The unit can be mounted in 2 gang backboxes, onwall back box and pole mounted with custom adaptor plates.

See also: additional documentation on wiki.zenitel.com

SPECIFICATIONS

AUDIO

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Audio quality - percentage articulation loss of consonants (Alcons) - at 70 dB</td>
<td>&lt; 5%*</td>
</tr>
<tr>
<td>Audio quality - total harmonic distortion + noise, without noise reduction (THD+N) - at 70 dB</td>
<td>&lt; 2%*</td>
</tr>
<tr>
<td>SPL rated power at 1m in open duplex</td>
<td>95 dB*</td>
</tr>
<tr>
<td>SPL rated power at 1m in half duplex</td>
<td>105 dB*</td>
</tr>
<tr>
<td>SPL rated power at 1m in program distribution and announcement</td>
<td>105 dB*</td>
</tr>
<tr>
<td>Noise cancelling - suppression of musical noise</td>
<td>YES</td>
</tr>
<tr>
<td>Noise cancelling - suppression of static noise</td>
<td>YES</td>
</tr>
<tr>
<td>Noise cancelling - suppression of rapidly changing noise</td>
<td>YES</td>
</tr>
<tr>
<td>Codecs</td>
<td>G.711, G.722, G.729</td>
</tr>
<tr>
<td>Frequency range, G.722 Codec</td>
<td>200 Hz – 7000 Hz</td>
</tr>
<tr>
<td>Audio technology</td>
<td>Modes: Full open duplex, switched open duplex</td>
</tr>
<tr>
<td></td>
<td>Adaptive jitter filter</td>
</tr>
<tr>
<td></td>
<td>Custom Ringing Tone</td>
</tr>
<tr>
<td></td>
<td>Audio Mixing – Conversation and Group Call</td>
</tr>
<tr>
<td></td>
<td>Sound Level Detection / scream alarm (only in AlphaCom)</td>
</tr>
<tr>
<td></td>
<td>Automatic gain control (microphone)</td>
</tr>
<tr>
<td>Internal speaker amplifier</td>
<td>10 W class D</td>
</tr>
<tr>
<td>Microphone technology</td>
<td>Digital MEMS, omnidirectional microphone</td>
</tr>
<tr>
<td>Automatic Volume Control (AVC)</td>
<td>Undistorted and clear audio</td>
</tr>
<tr>
<td>Acoustic Echo Cancellation (AEC)</td>
<td>Prevents audio feedback even at high volumes (95db)</td>
</tr>
<tr>
<td>10W Speaker</td>
<td>Matches 10W amp for distortion-free broadcast level sound</td>
</tr>
</tbody>
</table>

* Tested with Audio Precision SYS 2722 equipment

HARDWARE

<table>
<thead>
<tr>
<th>Feature</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Ethernet connector</td>
<td>1 x RJ 45</td>
</tr>
<tr>
<td>All other connectors</td>
<td>Tool less, spring loaded, vibration proof terminals</td>
</tr>
<tr>
<td>General inputs and outputs</td>
<td>6 (configurable)</td>
</tr>
<tr>
<td>Outputs</td>
<td>12mA as LED drivers</td>
</tr>
<tr>
<td>Change-over relay (NO+NC+CDM)</td>
<td>Max: 250VAC/220VDC, 2A, 60W</td>
</tr>
<tr>
<td>Power options</td>
<td>PoE and or external power supply</td>
</tr>
<tr>
<td>PoE (power over Ethernet)</td>
<td>IEEE 802.3af standard, Class 0 (0.44W to 12.95 W)</td>
</tr>
<tr>
<td>External power supply</td>
<td>24 VDC (16 – 48 V)</td>
</tr>
<tr>
<td>Power consumption</td>
<td>Idle 1.8W, max 12W (depending on volume)</td>
</tr>
</tbody>
</table>
HARDWARE
Audio Line out / Induction loop signal 600 Ohm
Button backlight LED
Call indication Icons/colors for hearing impaired

CONSTRUCTION
Dimensions (HxWxD) 180 x 120 x 73 mm / 7.1” x 4.7” x 2.9”
Dimensions after flush mount 180 x 120 x 24 mm / 7.1” x 4.7” x 0.9”
Dimensions with on wall box 180 x 120 x 86 mm / 7.1” x 4.7” x 3.4”
Weight 1 kg / 2.2 lbs.
Faceplate material 3 mm / 0.12” stainless steel - AISI 316L
Base / frame material 3 mm / 0.12” Aluminum alloy - A413.0, AISI12Fe, painted
Electronics cover material Polycarbonate (translucent)
Gasket material Silicone rubber
Fastening bracket material SECC Steel
Button material 3 mm / 0.12” Polycarbonate (transparent)
Button travel length 1.25 mm
Button activation force 350 gf
Button push-cycles before failure 300 000
Anechoic Design Open flow anechoic design eliminates “standing waves”
Loudspeaker poke protection, large diameter object 3D cast aluminum speaker grille
Loudspeaker poke protection, small diameter objects Stainless steel mesh, acoustically transparent

NETWORKING AND PROTOCOLS
Protocols IPv4 (with DiffServ), SIP, TCP, UDP, HTTPS, TFTP, RTP, SRTP, DHCP, SNMPv2c, Vingtor-Stentofon CC0IP®, NTP
LAN protocols Power over Ethernet (IEEE 802.3 a-f) Network Access Control (IEEE 802.1x)
Management and operation HTTP/HTTPS (Web administration and configuration) DHCP and static IP. Remote automatic software upgrade. Centralized monitoring.
Advanced supervision functions E.g. network test, tone test, status reports, uptime, button status.
SIP support RFC 3261 (SIP base standard) RFC 3515 (SIP refer) RFC 2976 (SIP info), SIP using TLS, RFC 5630 SIPS URI scheme
DTMF support RFC 2833, RFC 2976 (SIP info)
Max length extension numbers 20 digits

ENVIRONMENT AND COMPLIANCES
IP rating IP-66, tested according to EN 60529 (applies when mounted in TA-1 back-box)
IK rating IK 10, tested according to EN 62262
Operating temperature range -40° to 70° C
Storage temperature range -40° to 70° C
Relative humidity < 95% not condensing
Corrosion Salty mist, tested according to EN60945
Vibration Tested according to EN60945
UV-resistant YES
EMC CE and FCC Part 15 EN 50121-3-2 Railway application EN 50121-4 Railway application UN Regulation 10, revision 4 + Corr. 1 + Amend.1
Compliances IEC/EN 60945 Marine Equipment IEC/EN1000-6-1 and IEC/EN61000-6-3 (light industry) IEC/EN 50155 Railway Application * IEC/EN 50486 Equipment for use in audio video door-entry systems * With additional conformal coating Requires use of EN 50155 approved PoE switch
Certifications UL 60950-1, cUL 60950-1, CB to IEC 60950-1

OTHER SPECIFICATIONS
IP adress information Speaks IP address after system boot
Button lifetime > 100 000 cycles
Country of manufacture Poland

* Testé avec équipement audio de précision SYS 2722
TECHNICAL DIMENSIONS

All dimensions in mm

ACCESSORIES

TA-1  Item number: 1008140010
TA-2  Item number: 1008140020
TA-5  Item number: 1008140050
TA-18 Item number: 1008140180

TURBINE ADAPTER PLATE  Item number: 1072160000

TA-14  Item number: 1008140140

USED WITH

1023122061
ENA2060-DC1

Created: 01.07.2014, updated: 10.02.2020
2809016020
EMERGENCY STANCHION
1602 Deluxe Wall Unit

2809016030
EMERGENCY STANCHION
1603 Econo Wall Unit