

duo dynamic

The digital intercom for glass counters



TOPTRONIC
LE DIALOGUE ELECTRONIQUE
BIEN AJUSTE

Glass counters protect agents from multiple and varied aggressions: noise, dust, cold, drafts, viruses, sputters, physical threats. The more they protect, the less we communicate.

duo dynamic clears the glass by creating an acoustic bubble, within the full duplex dialogue offers excellent intelligibility and a fluid reception. The client-agent conversation remains discreet and doesn't overflow in the queue or at nearby counters.



duo dynamic Toptronic is a digital intercom, designed to meet the acoustic constraints complex and extreme of station ticket offices, winter sports resorts, amusement parks, hospitals, museums, universities, schools ...

DSP Digital Signal Processor technology allows the acoustic response to be framed as closely as possible: echo canceller, loudspeaker volume settings, microphone sensivity, standby and voice-activated, larsen filters, automatic adjustment of settings to ambient noise variation.

duo dynamic has a client/or agent hearing impaired option

Toptronic offers a wide choice of microphones and loudspeakers terminals, contributing to perfect acoustic integration and aesthetic.

Toptronic has extensive field experience on hundreds of installations and studies counters on plan and on site.



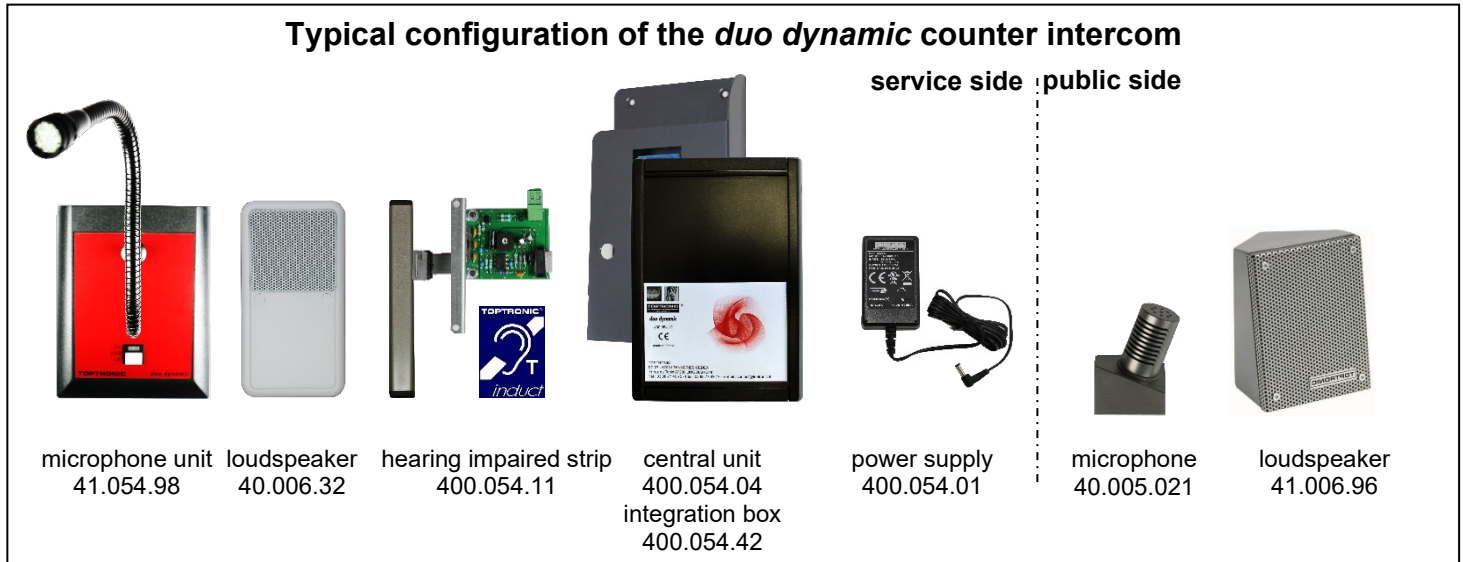
Communication at the glass counter

Glass counters are intended to protect agents of various aggressions, to which they may be exposed in their mission of reception: noise, dust, cold, drafts, viruses, sputters, physical threats, attacks ... related to their function, to the implementation of the counter or the values they hold.
Glazing creates a significant acoustic stress: the more it protects, the less we communicate.

duo dynamic dialogue

fast: question and answer together: full duplex
clear: excellent intelligibility of words: hi-fi microphones and loudspeakers
natural: usual conversations: 2 open channels
discreet: nearby counter and other customers do not hear
direct: microphones sensitivity settings
quiet: external noises are filtered: microphone squelch
enslaved: volume amplification based on ambient noise
constant: no drift of electronic settings
pleasant: never larsen: cancel filters
protected: glass without ballistic weaknesses

Typical configuration of the duo dynamic counter intercom



Central unit duo dynamic

Heart of the system, it ensures in DSP technology:

- loudspeaker amplification
- amplification and sensitivity of microphones
- standby management - squelch
- activation of larsen filters
- storage of settings
- centralization of connections

Pack central unit duo dynamic

- central unit electronic housing 400.054.04
- ON/OFF button - 6dB - green LED/red LED 400.054.12
- RS232 setting socket
- RJ45 microphone unit and pins microphone/loudspeaker
- plastic housing W 140 x H 190 x D 40 mm
- power supply 230 V AC / 15 VDC 400.054.01
- W 48 x H 80/100 x D 30 mm
- central unit integration box and power supply 400.054.42
- coated metal W 141 x H 248 x D 46 mm

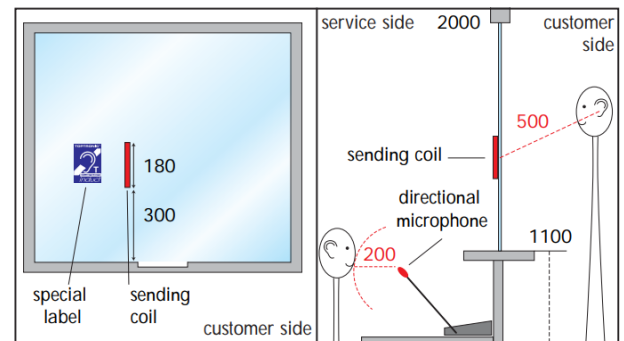
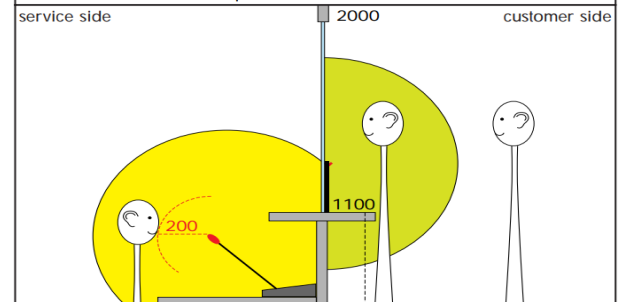
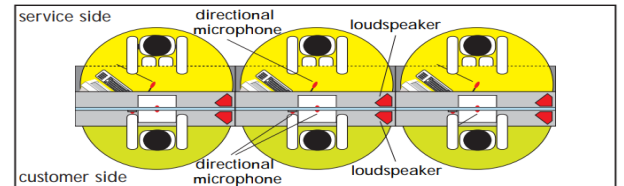
Hearing impaired kits

- public side 400.054.11
- amplifier card integrated in the central unit 400.054.09
- induction strip 20 x 20 x 170 mm - cable 3 m 400.054.10
- pictogram 41.000.00
- service side
- I 500 housing 41.029.01
- power supply 230 V AC / 15 V DC 400.054.01

PC setup software duo link

allows fine-tuning, on-site, of LS volume settings, sensitivity of microphones, squelch and larsen filters, prohibits access to unauthorised persons
Support: CD Rom/straight cable RS232 or memory stick

Inductometer hearing impaired loop test 41.014.11



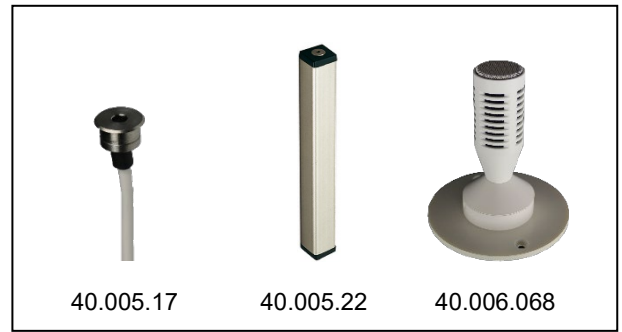
PUBLIC MICROPHONES

Omnidirectional microphones: quiet premises

Cone of wide and deep grip

Free positioning of the speaker

- omnidirectional microphone electret capsule 40.005.17
capsule stainless steel Ø 8 mm D 5,5 mm
flange 12 mm - cable 2 m
- self-adhesive fastening strip 40.005.22
square plastic tube W 20 x D 20 x H 180 mm
- desinfectable microphone - medical field 40.006.068
wall and ceiling mounted
white plastic Ø 25 mm H 82 mm



Directional microphones: noisy premises

Narrow and short cone

Optimal positioning of the speaker facing the microphone at 30 cm

- antivandal cube microphone screwed on the shelf 40.005.021
stainless steel stand W 30 x H 47 x D 36 mm
- « money-pass » microphone screwed on the sheet metal
Ø 17 mm - D 40 mm
- Choice of mounting bracket: on the customer's side
- directional microphone « 33 » to be integrated 40.005.33
in stainless steel capsule Ø 17 mm x D 28/36 mm
- angle bracket (shelf height 1 m) 40.005.26
stainless steel W 45 x H 180 x D 53 mm - requires « 33 »
- angle bracket (shelf height 70 cm) 40.005.26L
stainless steel W 45 x H 350 x D 53 mm - requires « 33 »
- « glazing » bracket (hole Ø 14 mm) 40.005.38
stainless steel Ø 12 mm - D 44/38 mm - requires « 33 »
- bracket « documentation block » 40.005.26HE
stainless steel W 30 x H 55 x D 58 mm - requires « 33 »



MICROPHONE UNITS - SERVICE SIDE

The directional microphone ensures outward discretion.

The efficiency is optimal if the agent speaks 30 cm in front of the microphone. The flexible arm allows ideal positioning of each agent and dampens shocks.

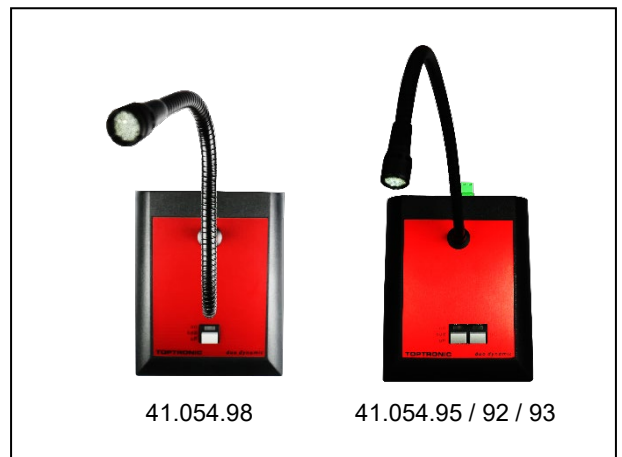
The switching + 6 dB allows to amplify the listening on the agent side.

The headset option avoids loud talking in a very noisy situation and prevents external noise from entering the agent side.

Surface mounting microphone units

W 70 x D 120 x H 1,5 / 2,5 mm

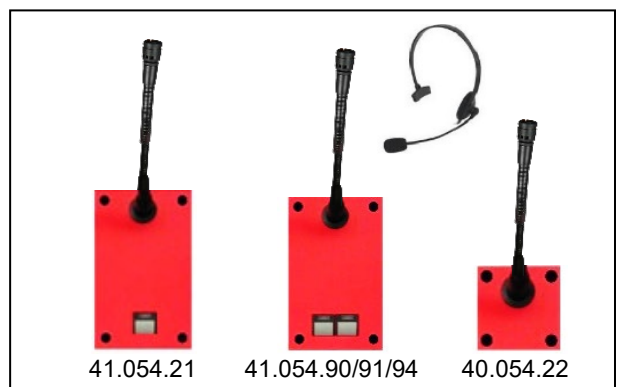
- 1 button: ON/OFF + 6 dB - green LED/red LED 41.054.21
- 2 buttons: ON/OFF + 6 dB and headset switching 41.054.94
- 2 buttons: ON/OFF + 6 dB and boosted call 41.054.90
- 2 buttons: ON/OFF + 6 dB and micro cut 41.054.91
- square plate 50 x 50 mm buttonless 40.054.22



Flush mounting microphone units

W120 x D 150 x H 25 / 45 mm

- 1 button: ON/OFF + 6 dB - green LED/red LED 41.054.98
- 2 buttons: ON/OFF + 6 dB and headset switching 41.054.95
- 2 buttons: ON/OFF + 6 dB and boosted call 41.054.92
- 2 buttons: ON/OFF + 6 dB and micro cut 41.054.93



LOUDSPEAKERS

Toptronic range of loudspeakers meets different requirements: bandwidth, sound pressure, vandal-resistant, aesthetic and integration choices, moisture stress ...

Surface mounting loudspeakers

Chassis 6 W 20 ohms - sound pressure 1W/1m: 86 dB

Bandwidth 250/20000 Hz

- anodized aluminium front plate protecting from runoff 40.006.17
bevelled sides for orientation

black plating housing

W 150 x D 105 x H 48 mm - cable 2,50 m

- white plastic housing 40.006.32

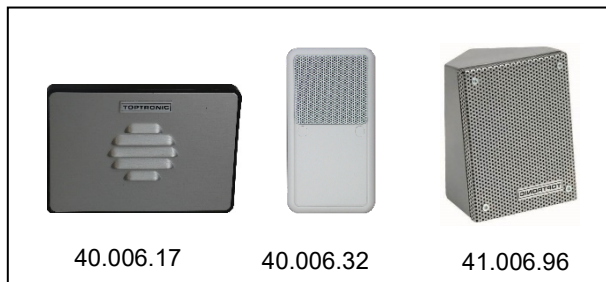
white coated aluminium grid

W 80 x D 150 x H 46 mm - cable 2,50 m

- stainless steel housing - stainless steel grid 41.006.96

vandal-resistant - watertight to runoff

W 130 x H 147 x D 145 mm - cable 2,50 m



Flush mounted loudspeakers

Chassis 6 W 20 ohms - sound pressure 1W/1m: 86 dB

Bandwidth 250/20000 Hz

- anodized aluminium front plate protecting from runoff 40.006.12

W 145 x H 100 x D 2 mm - cable 2,50 m

flush mounted plastic housing

W 135 x H 92 x D 50 mm - cable 2,50 m

- white ceiling spot 40.006.06

plastic housing - white coated aluminium grid

Ø 93/100 x 47 mm - cable 4 m

- semi-flush mounted white plastic housing 40.006.31

white coated aluminium grid

W 52 X H 81 x D 11/46 mm - cable 2,50 m



Horn loudspeakers

IP 66 grey plastic housing

Bandwidth 400/13000 Hz

Sound pressure 1 W/1 m: 97 dB

Cable 2,50 m

- Ø 135 x D 80/130 mm 40.006.08

- W 120 x H 120 x D 70 mm 40.006.08E



Exciter X 32.4 « panel loudspeaker » 40.006.90

Vibrator system glued on glass or screwed on wooden panel.

Placed on the service side, **exciter** sounds like a loudspeaker

5 W 4 ohms - Sound pressure 1W/1 m: 80 dB

Bandwidth 100/20000 Hz

Steel structure Ø 70 x D 26 mm



Chassis loudspeakers to integrate

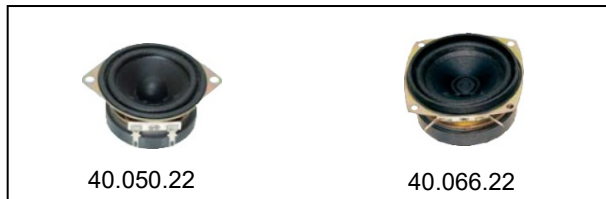
Bandwidth 250/20000 Hz

- chassis 3 W - 20 ohms - Sound pressure 1W/1 m: 80 dB

W 68 x H 52 x D 30 mm

- chassis 6 W - 20 ohms - Sound pressure 1W/1 m: 86 dB

W 68 x H 68 x D 35 mm



Special loudspeakers

- boosted loudspeaker 12 W 4 ohms - Sound pressure 1W/1 m: 94 dB

Bandwidth 220/16000 Hz

Plastic housing - coated aluminium grid AL 10/1-4

W 100 x H 300 x D 98 mm

- decor loudspeaker 6 W 8 ohms - Sound pressure 1W/1 m: 91 dB

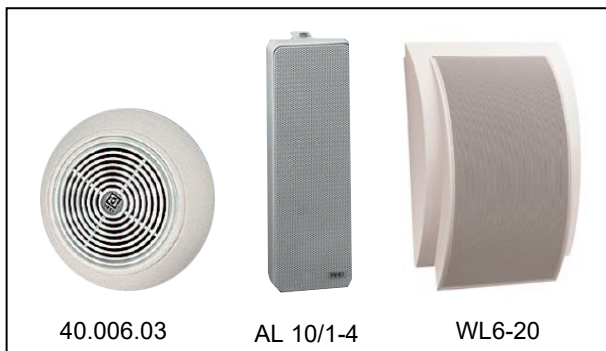
Bandwidth 200/20000 Hz WL6-20

Plastic housing - coated aluminium grid

W 210 x H 312 x D 85 mm

- ball housing with hanging 40.006.03

white or black coated aluminium Ø 180 mm - cable 4 m



Binaural DECT headset 10.001.11



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