



GXIP-2600

IP console

Code: 596034

Date: 11/2017

Version: 1



Made in
France

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I. Presentation

The **GXIP-2600** is a control and voice broadcasting console based on standard IP protocols, enabling it to be integrated into a local computer network (LAN) via a standard Ethernet interface.

The **GXIP-2600** console comprises:

- 1 electret microphone on XLR jack
- 18 programmable keys and corresponding status lamps
- 5 function keys
- 2 general status lamps
- 1 buzzer
- 1 Ethernet interface
- 1 analogue Audio interface
- 1 power supply socket
- 1 table mounting support

It enables the following functions to be performed:

-
- Interface with the central systems via an Ethernet-IP network
- Monitor communication with the central systems to which it is connected
- Broadcast messages with or without alert chime
- Trigger Voice Alarm conditions in the corresponding Alarm Zones
- Indicate the good operating status of the microphone cell
- Display the operating status of the corresponding Alarm Zones

The GXIP-2600 console is compliant with the requirements of standard EN54-16.

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II. Terminology

Line	Basic element that can be selected on a public address system. Physically, a line corresponds to the output from an amplifier. <i>Depending on the power of the output, a line can comprise several loudspeakers.</i> <i>Discriminating selection of loudspeakers is not possible on the same line.</i>
ZL	Line group.
ZA	Alarm Zone = set of lines on which the Voice Alarm is triggered. <i>A central security unit only manages one Alarm Zone, that is all the lines managed by the unit make up this zone.</i>
REG	ZA or ZL group.
Zone	Group of ZL, ZA or REG lines
General call	Selection of all links making up the sound system.
Voice alarm	Broadcasting of evacuation message.



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III. Presentation

1. Human-Machine Interface

18 programmable keys:

- Astable operation
- Integrated blue busy lamp
- Parameter: Line - ZL - ZA – REG
- 1 red lamp: indicates the voice alarm status of the alarm zone associated with the key
- 1 yellow lamp: indicates a fault in the alarm zone associated with the key
- 1 back-lit label-holder zone (*1 standard set of labels is provided*).

5 function keys:

- Voice Alarm – Stop audio signal – Cancel – Mic - General call
- Astable operation
- Integrated blue busy lamp

Others:

- 1 green “On” lamp to indicate the power on mode.
- 1 red “Fault” lamp summarising all the associated faults
- 1 buzzer to indicate the appearance of a fault (*stopped by pressing the Stop audio signal key*)
- 1 removable electret microphone with monitored cell.
- 1 “lamps test” button

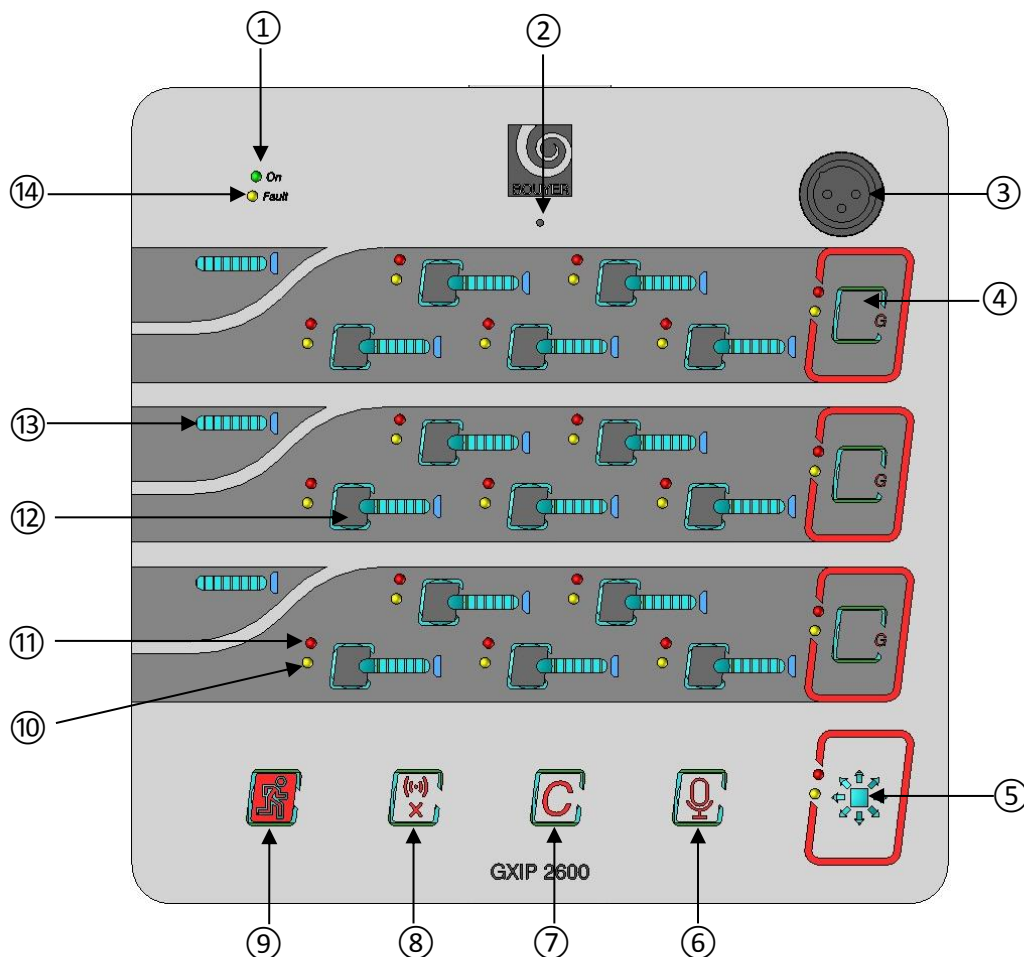
2. Connectors

- 1 female XLR port on the front panel for hand-held or gooseneck electret microphone.
- 1 RJ45 port: Ethernet
- 1 RJ45 port: 24Vdc power supply + 0dB Audio output.
- 1 standard 5.5 mmx2.1mm coaxial port: 24Vdc-700mA power supply

3. Mechanical aspects

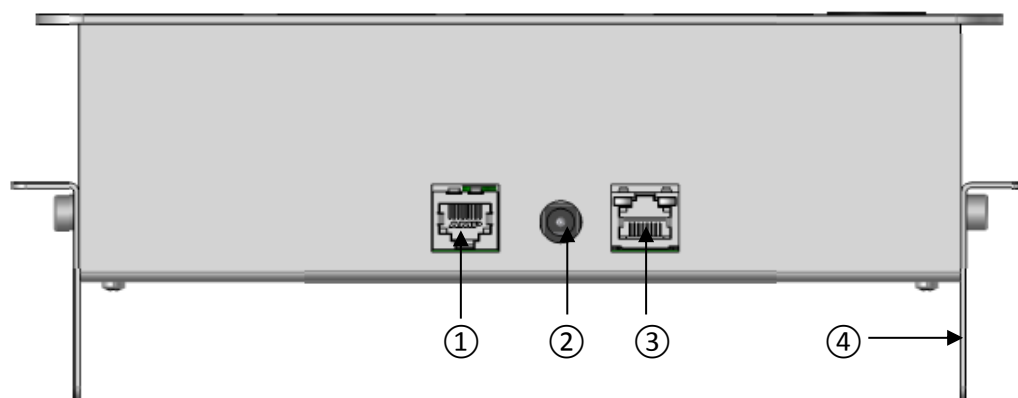
- Built-in sheet metal box, black paint and screen-printed polyester facade.
- Specific base supplied
- Console dimensions (D x W x H)
 - Desk-top: 350 x 280 x 130 mm
 - Built-in: 230 x 230 x 66 mm
- Protection class: IP 30
- Operating temperature range: 0 to 40°C
- Console weight
 - With base: 3.9 kg
 - Without base: 2.5 kg

4. Front panel



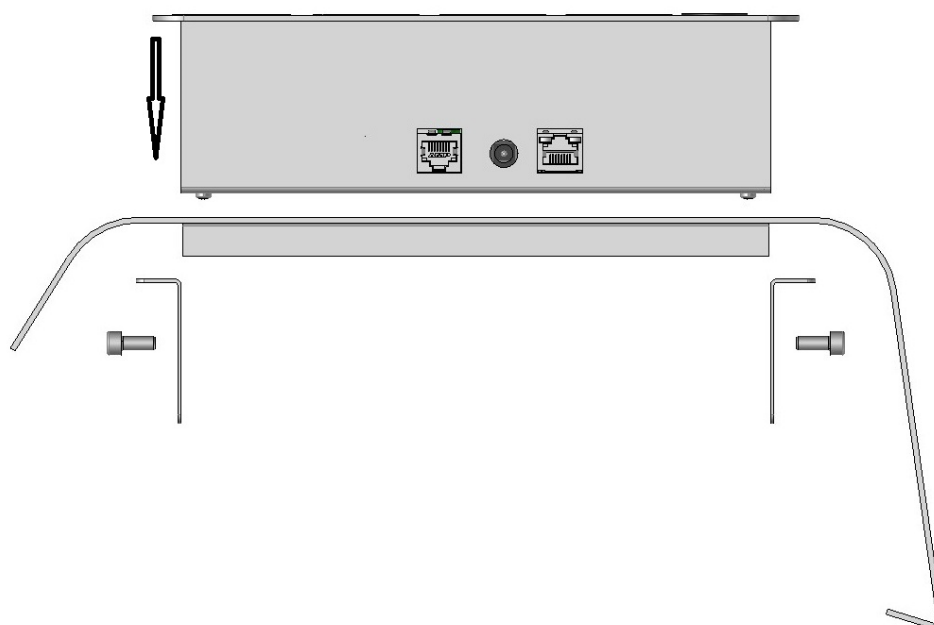
- ① Power on lamp
- ② Lamps test button access orifice
- ③ XLR female port for electret microphone
- ④ Group Select All button
- ⑤ General call button – Buttons group
- ⑥ Mic button
- ⑦ Cancel button
- ⑧ Stop audio signal button
- ⑨ Evacuation button
- ⑩ Fault lamp for ZA associated with button
- ⑪ Voice Alarm status lamp for ZA associated with button
- ⑫ Configured zone selection button (Line-ZL-ZA-REG)
- ⑬ Busy indicator and zone group label-holder
- ⑭ Fault lamp

5. Right hand side



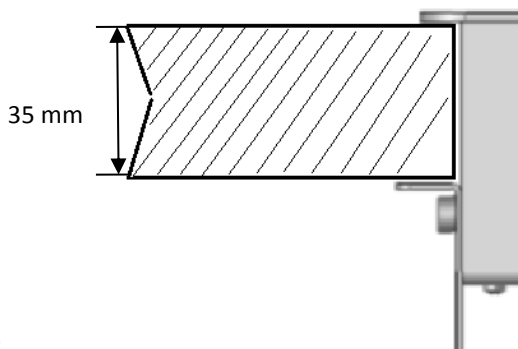
- ① RJ45 Ethernet port
- ② Coaxial power supply port + 24 VDC
- ③ RJ45 power supply port+ 0 dB Audio output
- ④ Mounting bracket

IV. Installation



1. Built-in version

- Opening cut-out L x w = 215 x 215 mm
- Material thickness: 1 to 35 mm



Caution!

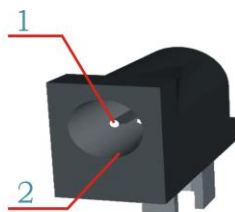
The device must not be exposed to running or splashing water.

2. Power supply

The GXIP-2600 requires a 24 VDC power supply capable of supplying at least 700 mA.

It can be supplied by:

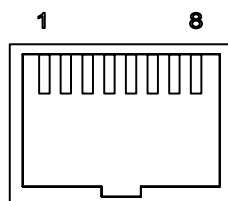
- central coaxial port



Pin Nr	Function
1	+24V
2	GND

- RJ 45 port

Pin Nr	In / Out
1	Audio Out +
2	Audio Out -
4	
5	GND
6	+24 V
7	
8	



RJ45 audio output pin assignment



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3. Network interface

The GXIP2600 interfaces directly with a switch type network element:

- Management of dialogue protocol with central systems
- Sound transport by IP encapsulation
- RJ45 port: use of a straight or crossed STP cable CAT5 or higher

V. Architectures

The GXIP2600 can interface with the following central systems:

- CS-2600-B3S
- Serenity Voice
- Vulca Voice

1. CS-2600 / B3S

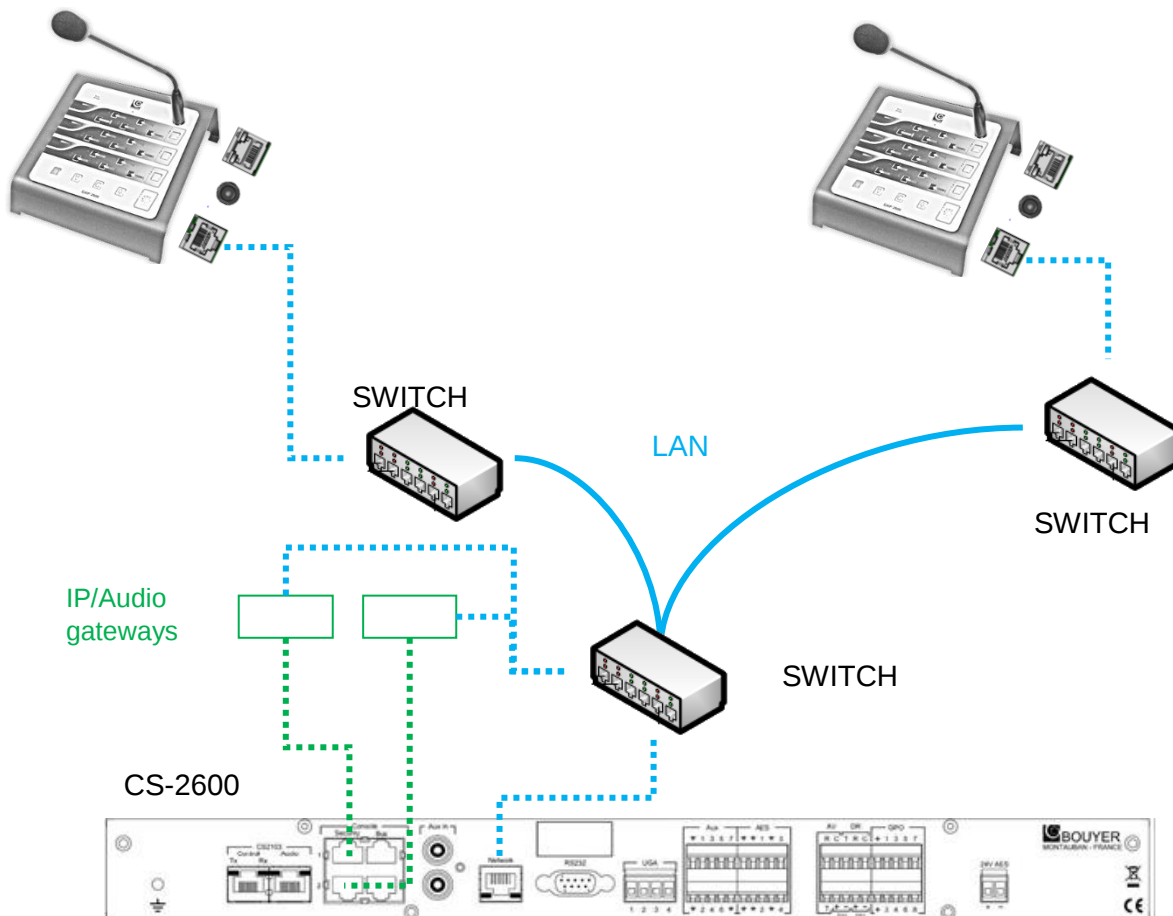
Characteristics	Details	Comments
CS-2600 software version	V0_97_23 and higher	
Max. nbr of units per console	15	
Max. nbr of consoles per CS2600	2	Inputs used Security 1 / Security 2
IP stream decoding	IP sound gateways	

2. Serenity Voice / Vulca Voice

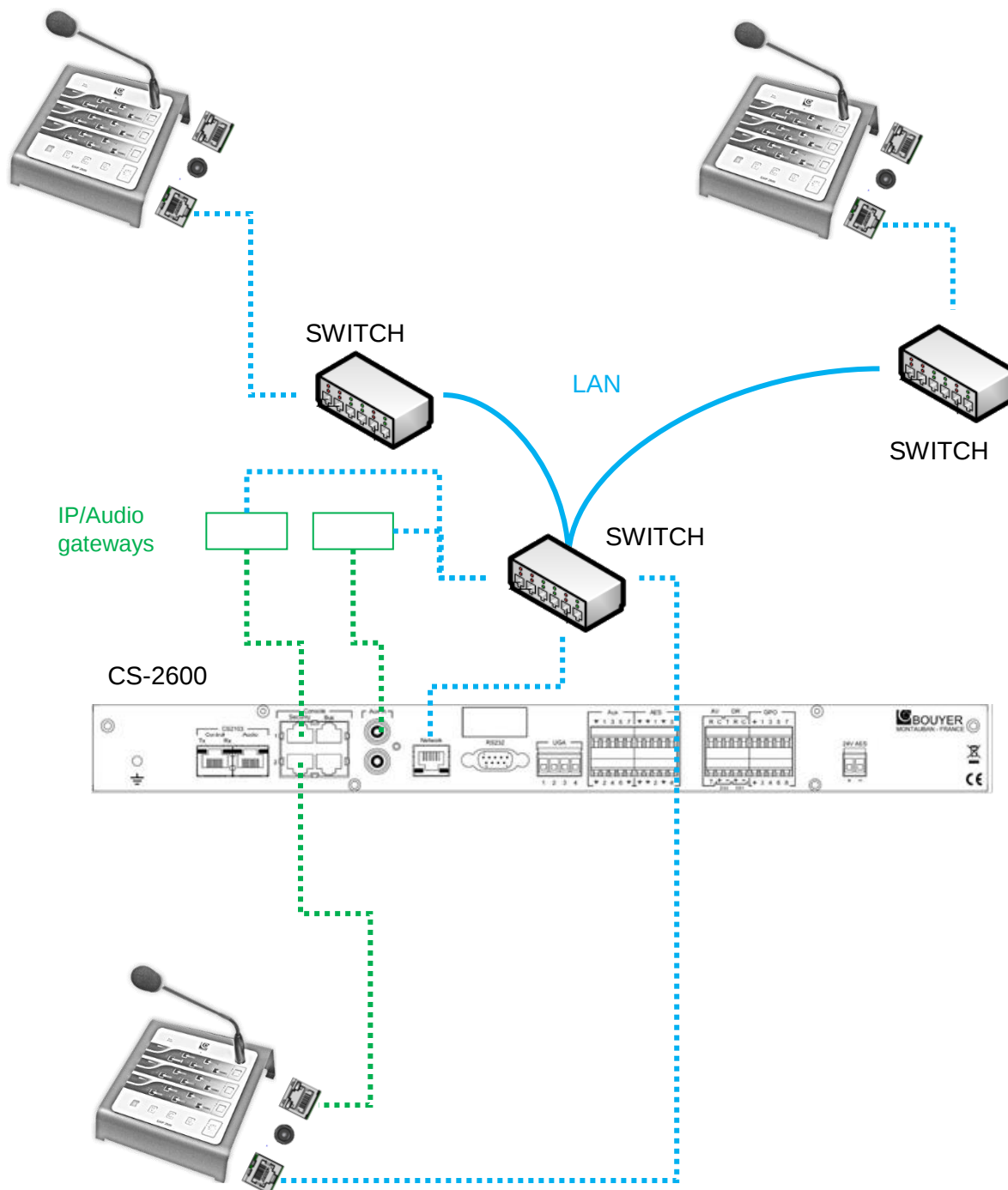
Characteristics	Details	Comments
Compatible units	All references ending with '–I'	
Max. nbr of units per console	15	
Max. nbr of consoles per unit	2	Inputs used Security 1 / Security 2
IP stream decoding	Integrated 2-stream	

3. Connection examples

EXAMPLE 1: With CS-2600 via existing network (power supplies not shown)



EXAMPLE 2: On B3S with 1 console connected in analogue audio distance from CS-2600 < 20 m





GXIP-2600

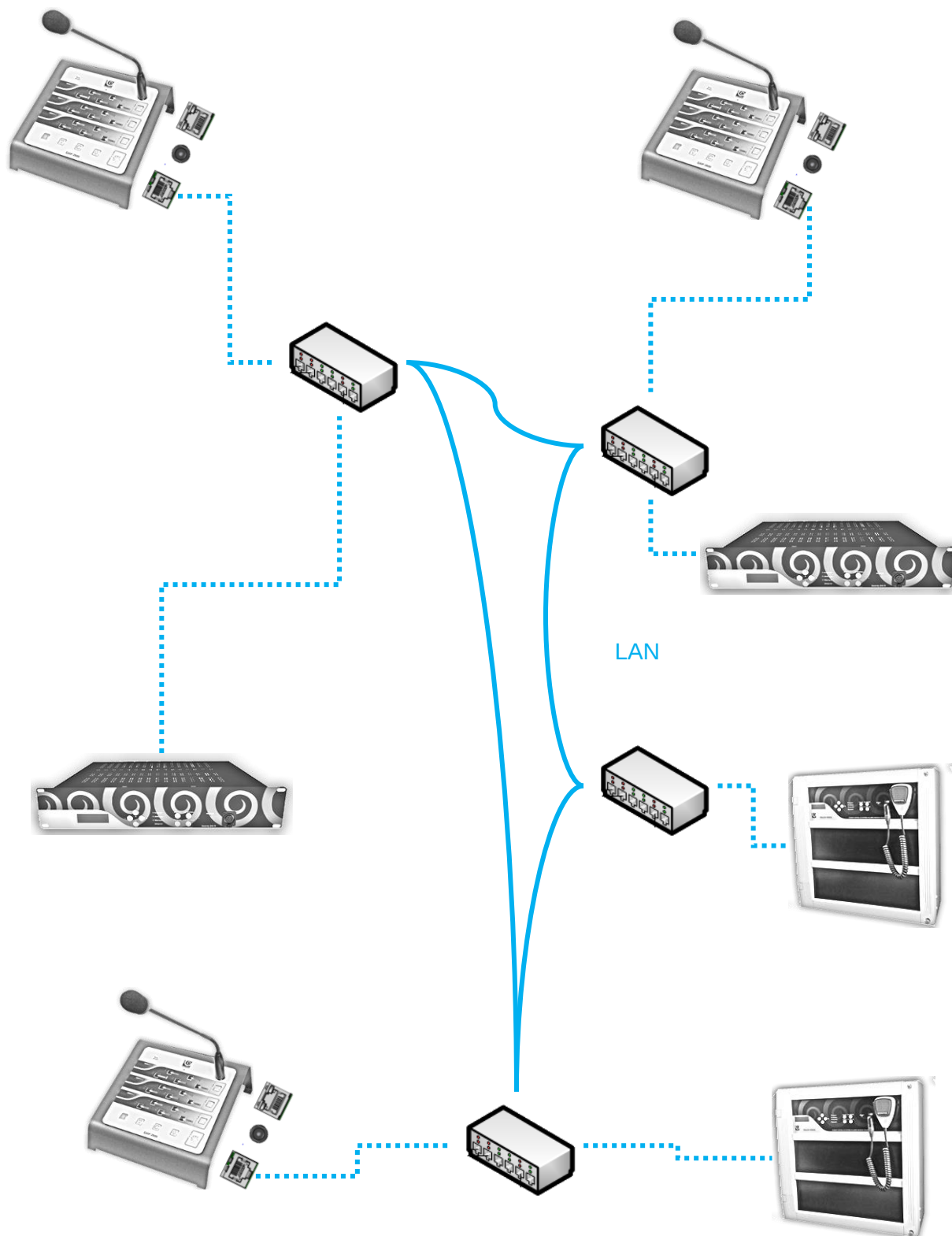
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EXAMPLE 3: *Vulca Voice and Serenity Voice*



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VI. Configuration



Configuration of the console is reserved exclusively for qualified BOUYER personnel.

VII. Operation

1. Function keys

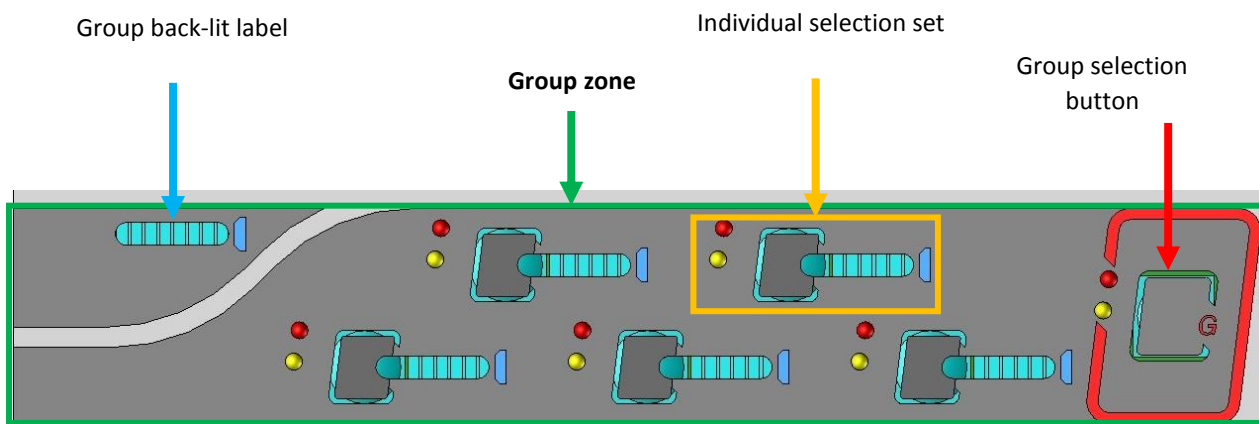
	Key	Function
	Evacuation	Triggers/stops broadcasting of the evacuation message on the selected ZAs
	Stop audio signal	Stops the audio signal indicating appearance of a fault with steady lighting of the fault lamps
	Cancel	Cancels the current selection
	Mic	Triggers the chime (if configured) and enables the spoken message to be broadcast (Mic)
	AG	Selects all the configured selection buttons

2. Configurable keys and lamps

a) Elements

Lamp		Function
	Voice alarm	Gives the Voice Alarm condition of the ZA of the corresponding selection <i>Flashing = in progress triggered by another peripheral</i> <i>Steady = in progress triggered by the console</i>
	Fault	Fault present in the ZA of the corresponding selection <i>Flashing = appearance</i> <i>Steady = acknowledged on the console after pressing Stop audio signal</i>
	Back-lit label	Zone associated with button is busy * (Blue) <i>Flashing = occupied by another peripheral</i> <i>Steady = select by the console</i>
	Back-lit button	Indicates selection of the button and the corresponding zone (Blue)

b) Group



The group can represent:

- 1 ZL that is 1 set of lines
- 1 ZA that is 1 set of ZLs
- 1 REG that is 1 set of ZAs

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The group selection button can be used to select the ZL, the ZA or the REG configured and all the corresponding group buttons.

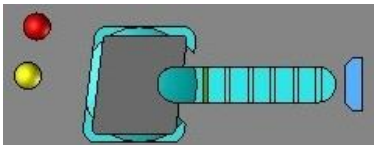
To select: press the group button

- Group label back-lit steady
- All the labels of the individual group selection sets are back-lit steady.
- Button back-lit steady

To deselect the group: press the group button or the Cancel button

- All the group labels are unlit
- Button unlit

c) Individual selection set



The individual selection set comprises the 4 elements described above in the zone associated with the button by configuration

The individual selection set can represent:

- 1 Line
- 1 ZL that is 1 set of lines
- 1 ZA that is 1 set of ZLs

The selection button can be used to select the Line, the ZL, or the ZA configured.

- To select, press the button
 - Label back-lit steady
 - Button back-lit steady
- To deselect: press the button
 - Label unlit
 - Button unlit



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3. Operating procedures

a) Broadcasting a message to one or more zones

- Select the zone(s): press the corresponding button(s)
- Press and hold the Mic button
 - Mic button flashing: Chime being broadcast
 - Mic button lit steady = Speak
- At the end of the message release the Mic button
- Press the Cancel button to deselect the zone(s).

b) Voice Alarm Broadcast

- Select the ZA(s): press the corresponding button(s)
- Press the Evacuation button
 - The red and blue lamps for the ZAs selected flash.
 - Only the Mic and Evacuation buttons are active

To broadcast a spoken message:

- Press and hold the Mic button
 - Mic button flashing: Chime being broadcast
 - Mic button lit steady = Speak
- At the end of the message release the Mic button
 - To stop the broadcast: press the Evacuation button
 - Press the Cancel button to deselect the zone(s).



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VIII. Characteristics

HMI		
Mic	Electret-gooseneck-XLR	Unidirectional
Buttons	23	With backlighting
Lamps	63	
Buzzer	1	
Microphone		
Cell	Electret	
Bandwidth	80-18 kHz	
Sensitivity	-46 dB	
Directivity	Cardioid	
Audio output		
Connectors	RJ45	Straight STP CAT5 cable
Level	0 dBm	Galvanic isolation
Bandwidth	80 – 18 KHz	
SNR	85dB	
Distortion	< 1% @1 KHz	
Network		
Connectors	RJ45	STP CAT5 cable
Type	100BASE-TX/10BASE-T	100 Mbit/s max
IP sound	PCM L16 mono / 44.1 KHz	706.5 Kbit/s
Power supply	Supplied 230 VAC-24 VDC	
Voltage	24 VDC	
Consumption	700 mA max	
Connectors	Coaxial jack	Ø 5.5 x Ø 2.1 mm
Operating temperature	0 to 40°C	
Mechanical aspects		
Protection class	IP30	
Front panel finish	Screen-printed polyester film	
Optional base	Frosted graphite finish grey steel base	
Dimensions (D x W x H)	console 230 x 230 x 66 mm	base 350 x 280 x 130 mm
Panel cut-out for built-in version	215 x 215 mm	
Console weight	2.5 kg	
Console weight with base	3.9 kg	

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IX. Recommendations



At the end of the product's life, if installed on French territory (including overseas), please contact BOUYER to organise its destruction in accordance with the WEEE directive. If not, please apply the local regulations of the country in which the product is installed.