USER MANUAL (V1.0)

Alpha Announce Control panel
Alpha Announce Extension panel
Public Address and General Alarm System

CONTENTS

1. CONTENTS OF DELIVERY

The delivery of Paging/ Console contains:
- Paging/Control Console equipped with needed modules
- Windscreen for the microphone capsule
- 1 pcs. RJ-45 connecting Cable 2,5 m with EMI suppressing ferrite
- Removable 2-pin terminal block connector for external dimmer voltage input
- Removable 3-pin terminal block connector for a relay output
- Printed copy of User Manual and User Guide

2. GENERAL

Alpha Announce Control panel is a part of Alpha Announce Digital Public Address and General Alarm System. Control panel is used to make announcements and control alarm messages. If system monitoring is activated Control panel is used to indicate and clear system faults aswell.

The main features of Alpha Announce Control panel are:
- Gooseneck microphone
- System error indication
- 8 freely programmable push buttons for group or alarm selection
- Alarm buttons protected against accidental use
- Dimmable backlight
- External dimmer input
- Local speaker mute contact
- Fed from central rack
- 4 button extension panel option
- Engraved buttons
- Cut out dimension 142*142 mm
- Front dimension 160*180 mm
- Up to 16 Control panels per system

Alpha Announce Extension panel is used to extend the number of programmable push buttons for Alpha Announce Control panel. With Extension panel the total number of push buttons controlled by one Control panel is 16.

3. MODELS

- Alpha Announce Control panel
- Alpha Announce Extension panel
    - The color of buttons is customizable to match the group and/or alarm selections

4. FRONT PANEL

4.1.   Front panel of Alpha Announce Control panel
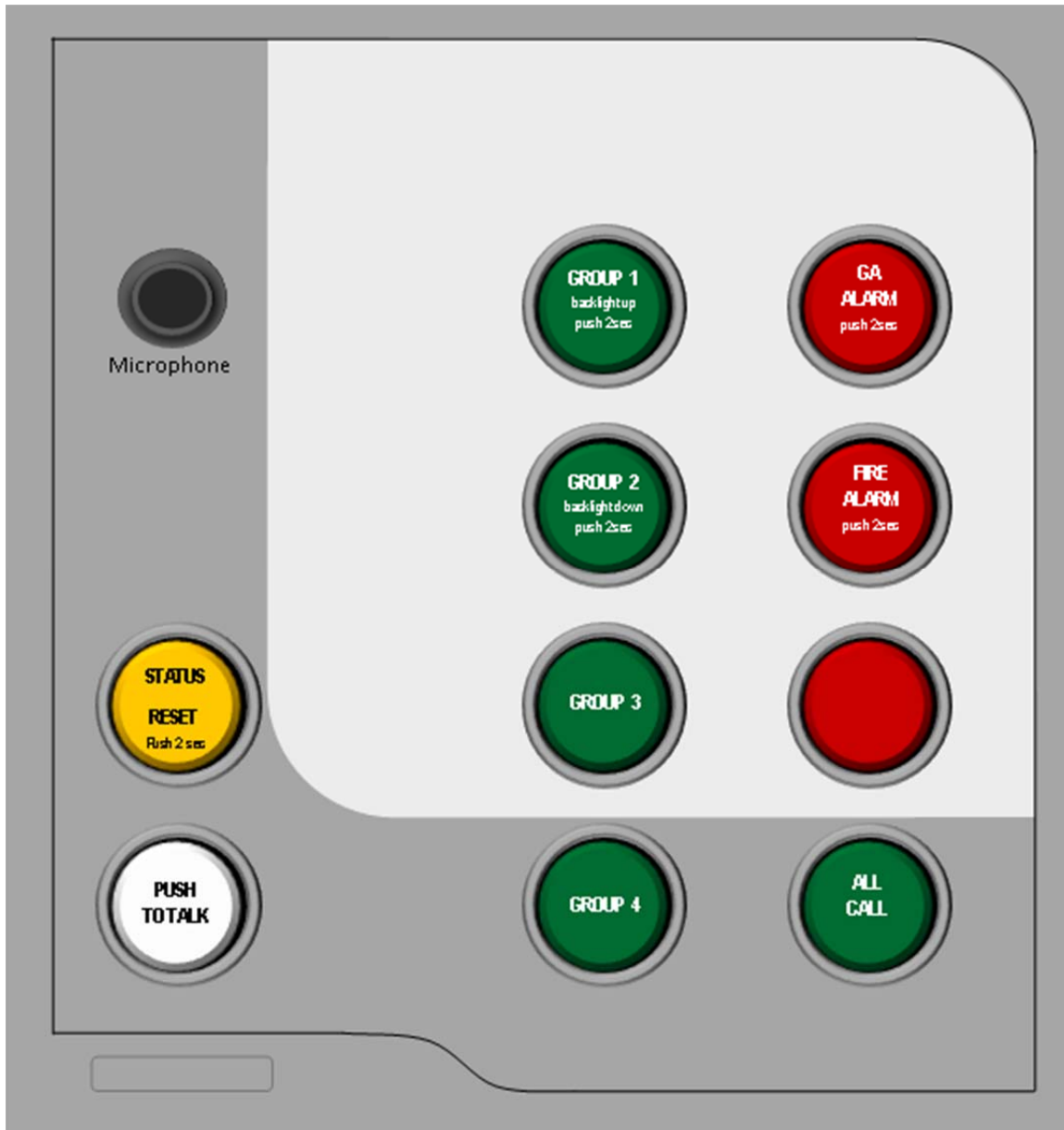
PUSH TO TALK –button
PAGING to selected zones can be done by holding this button.
Button can also be configured to operate in toggle-mode.
Button is blinking during prefix and message.

GROUP 1 –button
Group 1 paging zone selection and deselection.
Increase of backlight brightness of buttons when pushed over 2 seconds.

GROUP 2 –button
Group 2 paging zone selection and deselection.
Decrease of backlight brightness of buttons when pushed over 2 seconds.

GROUP 3 and 4 –button
Group 3 and 4 paging zone selection and deselection.

GENERAL ALARM –button
Push over 2 seconds to activate defined prerecorded GENERAL ALARM –message.

FIRE ALARM –button
Push over 2 seconds to activate defined prerecorded FIRE ALARM –message.

ALL CALL –button
ALL CALL paging zone selection and deselection.

STATUS/RESET –button
Short push clears all selected zones.
Pushing over 2 seconds during message repetition ends the message.
Pushing over 2 seconds clears active faults.
FAULT- indication (lit up) is active, if any fault has been detected in the system.

Note 1. that this is the default factory configuration. The functions for the buttons can be configured.
Note 2. Faults are indicated only if monitoring is activated.

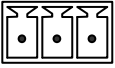## 4.2 Front panel of Alpha Announce Extension panel
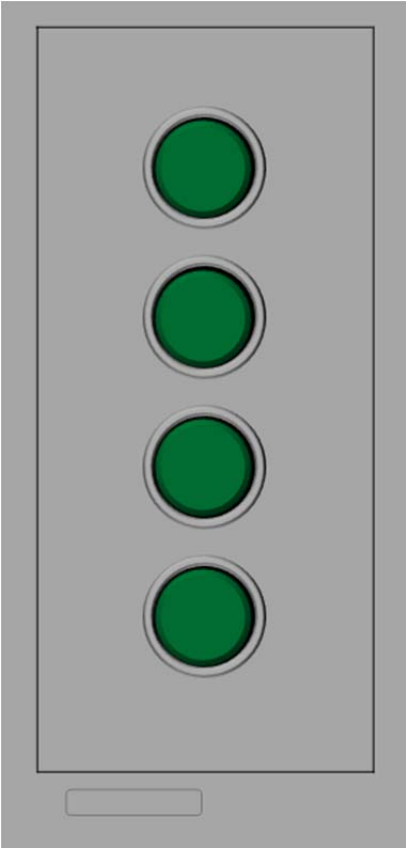
External panel can be equipped with both green and red buttons.

Button functions are configured with PC software in Control panel dialog.

5. REAR PANEL OF ALPHA ANNOUNCE CONTROL PANEL

Dry contact output for System fault remote control or local speaker mute control.
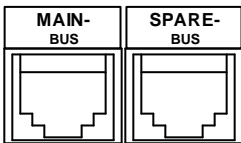
Aux audio input, 3.5 mm stereo plug

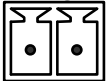Aux audio and microphone level settings

RJ-45 system bus connector to connect paging console to Alpha Announce system.

Dip switch to set the address (1-4) and to select the power supply for button backlight (5 and 6).

Connector for external power supply for backlight (24 VDC)

Type plate on the bottom of the console

TYPE: Alpha Announce Control panel
CODE:

S/N: CE RoHS

ADDRESS	BACKLIGHT
1	5 6 FROM INTERNAL POWER SUPPLY
2	5 6 FROM EXTENAL POWER SUPPLY
3	5 6 FROM BOTH POWER SUPPLY
4	
5	
6	
15	

CTRL OUTPUT — NC COM NO

AUX IN

VOLUME AUX MIC

MAIN- BUS

SPARE- BUS

1 2 3 4 5 6
DIP   ON↓

+24V GND

1 2 3 4 5 6 7 8

PIN / SIGNAL	CABLE PAIRS
1 / AUDIO +	P1
2 / AUDIO -	
3 / AGND	
4 / DGND	P3 P2
5 / +12VDC	
6 / +24VDC	
7 / DATA A	P4
8 / DATA B	
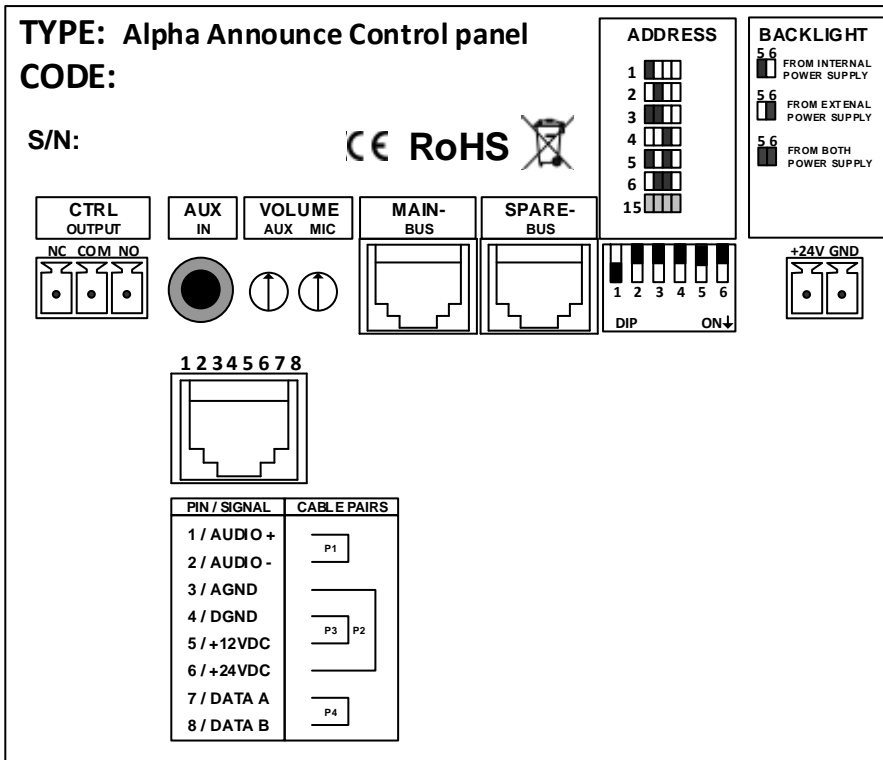
6. OPERATION INSTRUCTIONS

Power-on

After power-on, the STATUS/RESET-button will lit up and the console starts establishing connection to the main unit. Light goes off when connection is established and other buttons start working.
If there is active fault in system the button will lit up immediately again.

Making announcement

Paging zones are selected with zone buttons (usually green). Selected zones are lit up.
Selection can be removed by pressing selected zone button again, or removing all selections at once by pressing reset briefly.

When zones are selected, paging is started from PUSH TO TALK-button by keeping it pressed
1. During prefix, the PUSH TO TALK-button is blinking.
2. When PUSH TO TALK-button is lit up, microphone is open.
   Speak to microphone from a distance of 10-20 centimeters.
3. Paging is ended by releasing PUSH TO TALK-button.

Activating pre-recorded emergency message

Pre-recorded emergency messages are started by holding message button (usually red) until the light of the button goes off (2-3 seconds).
The PUSH TO TALK-button will blink to indicate the on-going message.
The message will keep playing repeatedly.

During the emergency message you can make announcement by simply pressing and holding the PUSH TO TALK-button. After the announcement, release the PUSH TO TALK-button and the emergency message will continue to play. Note, that the zone must be defined in order to function.

To stop the message from playing hold the RESET-button for 2-3 seconds.

Setting the backlight for the buttons

The brightness of backlight for the buttons can be adjusted from the upper-left button and the button below it.
To increase the brightness hold the upper button until the desired strength is achieved.
It will take about 2 seconds for the button to start increasing the brightness.
To decrease the brightness hold the button below until the desired strength is achieved.
The backlight is reset after power-on.

Note that when using external backlight power supply the brightness of backlight must be set to maximum.

Clearing system monitoring faults

When the system has detected a fault and it's active, the light of the Reset-button is on.
If you want to clear all the faults in system, simply hold the Reset-button until the light of the button goes off (2-3 seconds). This can only be done when no paging is active.
The light of the Reset-button goes off to indicate cleared faults.

7. CONFIGURATION

System configuration can be done with PC using Alpha announce software in access level 3. Only system manager (skilled and trained person) is allowed to do modifications to the system.

Parameters to be defined for consoles are:

- Name of the console
- Address   1…15
- Priority   1…15
- Chime   Selection from messages available
- Model combination
- Bus   System Bus/Local Bus
- PUSH TO TALK-btn mode   Push-Button/Toggle
- Monitoring   Monitoring on/off

- Function buttons can be configured to operate as:
  o   Zone selection
  o   Message, single
  o   Message, continuous (Alarm messages)
  o   Aux audio paging
  o   Control output, toggle
  o   Control output, pulse
 o   Preset call
  o   Call-off control

8. SETUP

8.1.   Cabling and Connection

Consoles can be connected to system using CAT5, CAT6 or CAT7 category cabling. Dedicated network is recommended, but building general data cabling can be used also. Note! be sure not to use cables in use for Ethernet or Intranet.

Network structure for Alpha Announce System Bus is bus-cabling from device to device, but star-cabling structure works in normal case very well, unless cable total length does not exceed 1200m.

In normal installation System Bus feeds all needed power voltages to the unit; no external Power Supply is needed. Anyhow, if many units with remarkably long cables are to be used, voltage drop measured from the end of the cable should be noticed and examined.

1 2 3 4 5 6 7 8
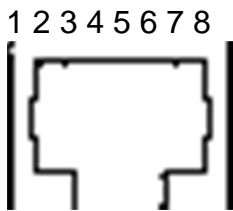
1	Audio +		P2
2	Audio -		P2
3	Audio GND		P3
4	Digital GND		P1
5	Digital +12VDC		P1
6	Audio +24VDC		P3
7	Data (A)		P4
8	Data (B)		P4

8.2. Address and backlight power setting

Each Console has its own binary addresses. Address must be set before power-up with the DIL-switch in rear panel.
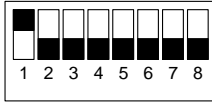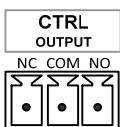

DIL-switch at ON position

ADDRESS	1	2	3	4
1	X			
2		X		
3	X	X		
4			X	
5	X		X	
6		X	X	
7	X	X	X	
8				X
9	X			X
10		X		X
11	X	X		X
12			X	X
13	X		X	X
14		X	X	X
15	X	X	X	X

Backlight for the buttons can be powered from internal or external 24VDC power supply. Power supply selection is made with dip switches 5 and 6.

Power supply source for backlight	5	6
Internal	x	
External		x
Both	x	x

8.3. CTLR Output

Console is equipped with relay dry contact output control. It can be used for:

- General system monitoring control. In monitored system Console supervises master System Unit. If it recognizes a fault in the unit or in the transmission path to console, it gives general "System Fault" indication and activates the relay control. Control is to be used in VAC, monitoring room etc. to indicate "fatal error", of the system.
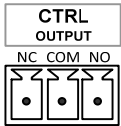
Control is recommended to connect between NC and COM to supervise the control cable itself.

- Local speaker muting control. Speaker(s) near the Paging/Control Console are muted during paging to prevent the acoustical feedback form speaker to the microphone.
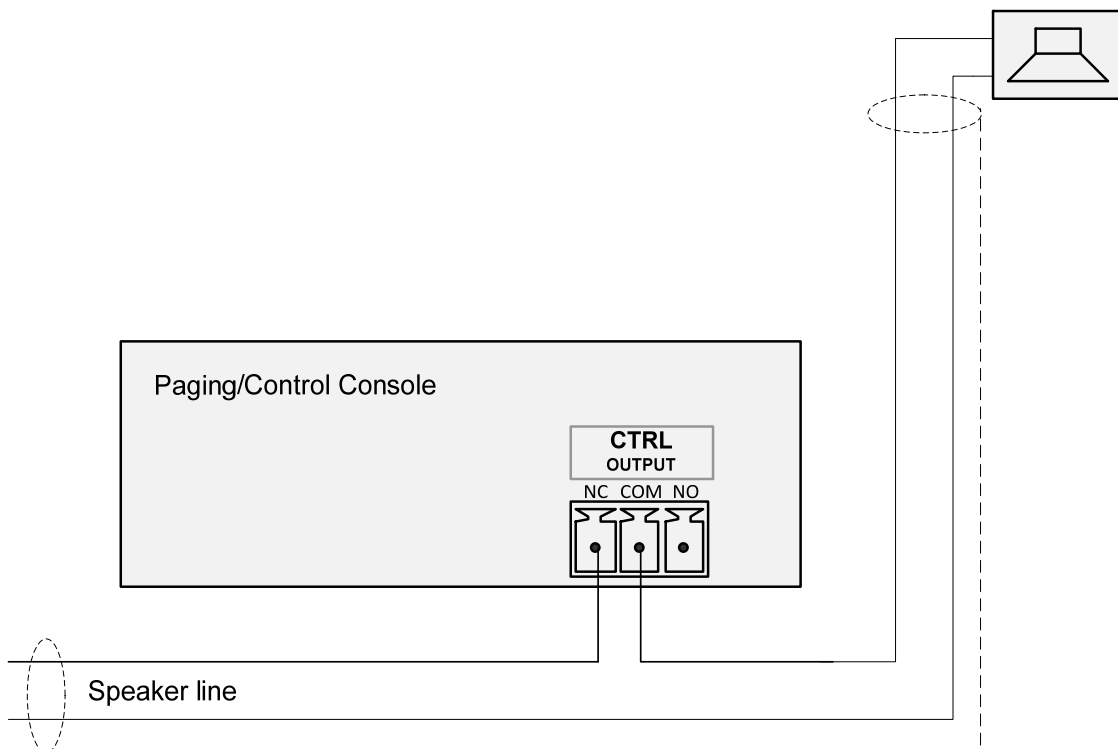
9. TECHNICAL SPECIFICATIONS

Compliance with following standards: CE
                                                        EN 60849:1998
                                                        EN 54-16:2008
                                                        ISO7240-16:2007
                                                        EN 60945:2002
- Frequency response (-3 dB)   200- 17 000 Hz (mic)
                                                        50 -17 000 Hz (aux)
- THD+N 1 kHz   < 0,1 %
- Connectors type
  - System Bus   RJ-45
  - Redundant Bus   RJ-45
  - Aux audio   3.5 mm stereo plug
  - Ext. control   3pin removable screw terminal, 0,75 mm2 wire
- Operation temperature   -15 …+50 ºC
- Operation humidity   20 …90% RH
                                                        non-condensing