





#### NORALSY MASTERING ACCESS CONTROL

# **Cabling Audio Systems**

- Cabling should be Star Configuration (Topology). ie. Each Handset cable should go back to a junction box or central cabinet and NOT looped from one Handset to the next. This is purely for maintenance reasons.
- It is recommended that 1mm diameter conductors are used from the power supply to the (+) POSITIVE and (-) NEGATIVE of the speaker unit.
- 3) It is recommended that 1mm (preferably 1.5mm) diameter conductors are used for the lock circuit.
- 4) Standard BT telephone cable is recommended (0.4mm per conductor) for reasons of higher quality audio reproduction and because the pairs are twisted thereby providing a powerful defence against interference.
- 5) Standard alarm cable can also be used although there is a greater risk of interference. Special care must be taken to ensure clean and neat terminations.

6) All low voltage cabling must be run totally separated from high/mains voltage cables.

Please note that far better results are achieved using thicker conductors than combinations of thinner conductors.

### Power

Power the MIHP/6 Speaker using a 12V DC power source.

Amperage draw is dependent upon consumption characteristics of the locking used, the lengths of cable runs, the number of handsets required to switch on simultaneously etc. As a general guide, allow 1 Amp per door. If unsure, please contact Noralsy.

# Standby for Audio Systems

Simply add 12V battery to 12V DC power supply.

# General Wire Diameter Guidlines - per conductor

Distance Metres	Call/Speech/Release CA, 2, 1, 9, 6
	mm
50	0.4
100	0.8
200	1.0
300	1.6

For greater distances, please contact Noralsy for advice.





#### N.A.C.D. LIMITED

UNIT 10, AVEBURY COURT, MARK ROAD, HEMEL HEMPSTEAD, HERTS HP2 7TA TEL: 01442 211848 FAX: 01442 212776 EMAIL: sales@nacd.co.uk WEB: http://:www.nacd.co.uk

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# **Audio Entry**

# INSTALLATION INSTRUCTIONS

# MIHP/6 SPEAKER

**Single Entrance** 

**Multiple Entrances with Automatic Switching** 







21 DU Speaker Speaker



# Audio Entry Functional Systems



Contents	Page
General	3 -4
Single Entrance Audio System	5
2 Entrance Audio System	6
3 - 4 Entrance Audio System	7
5 - 6 Entrance Audio System	8
7 - 8 Entrance Audio System	9
Interfacing with a Keypad, Fail Secure Locking	10
Interfacing with a Keypad, Fail Safe Locking	10
"Volt Free" Automation	11
Interfacing with a Keypad, "Volt Free" Automation	11
Interfacing with Access Control, Fail Secure	12
Interfacing with Access Control, Fail Safe	12
Interfacing with Access Control, "Volt Free" Automation	12
Programming instructions for 30 Code/1 Relay Keypad	13
Programming instructions for 30 Code/3 Relay Keypad	14-15
Cabling Specifications	16

#### **DELETING USER CODES** As all User Codes are stored in Slots, it is easy to delete a code from the keypad:

or

Enter the Master Code and wait for the beeps. After a beep enter on the keypad:

Slot No. \_ Delete Command

To delete the User Code stored in Slot 01

A rapid series of beeps indicates that you have deleted successfully. Now press B or # to escape from programming.

#### **OVERWRITING / CHANGING USER CODES**

You do not have to delete a User Code in order to change it. By programming a new User Code into a Slot that is currently in use, you automatically erase the old User Code.

Enter the Master Code and wait for the beeps. After a beep enter on the keypad:

O1 6 700028 Slot No. \_\_\_\_ 7 User Code

The new User Code in Slot 01 is 700028. Whatever was in Slot 01 before has been erased.

#### Note: You change the Master Code in exactly the same way.



.....to program Master Code 7767110 into Slot 30

Now press B or # to escape from programming.

#### LATCHING RELAY

The code stored in Slot 28 acts as the "ON" for Latching Relay no. 3. The code stored in Slot 29 acts as the "OFF" for Latching Relay no. 3.

If you do not store a different code in Slot 29 to that stored in Slot 28, entering the code stored in Slot 28 will act first as "ON" and then as "OFF", then "ON" etc.

#### **EMERGENCY CODE**

The code stored in Slot 27 operates both Relay no. 1 and Relay no. 2 at the same time.

#### **ANTI-TAMPER**

An anti-tamper circuit (terminals 11 + 12 of J1) provides a normally closed contact, once the keypad is secured to the wall.

#### AUTOMATIC TIME-OUT - whenever programming accessed via Master Code

If you do not press B or # to escape from programming, the keypad will automatically revert to normal mode after 20 seconds.





To delete the User Code stored in Slot 17

Slot No. \_\_\_\_ A or \*

# NORALSY<sup>™</sup> KEYPAD 30 CODES / 3 RELAYS

## TOP POINTS TO REMEMBER

- Master (Engineer) Code is always stored in Slot 30.
- User Codes are stored in Slots 01, 02, 03, 04......26.
- Relay no. 1 is controlled by the User Codes stored in Slots 01 13.
- Relay no. 2 is controlled by the User Codes stored in Slots 14 26.
- The code stored in Slot Number 27 activates Relay no. 1 & Relay no. 2 simultaneously.
- The code stored in Slot Number 28 turns Latching Relay no. 3 "ON".
- The code stored in Slot Number 29 turns Latching Relay no. 3 "OFF".

#### **TIP - WHEN YOU ARE IN PROGRAMMING**

Enter the numbers in guick succession after a beep. Do not wait more than 2-3 seconds in between entering numbers. If you have correctly programmed, you will hear a rapid series of beeps.

#### SET-UP ON INSTALLATION

Wire up according to appropriate electrical schematic for your installation, then power up the keypad. Flick Programming Switch SW5 and wait for the keypad to start beeping every 3 seconds.

#### STEP 1

Decide Now.....for how many seconds do you want the door to open:



NOTE: Relays can be programmed between 01 - 99 seconds.

After a beep enter Set Timer 00 05 05 | Command Relay No. 2

The 2no. digits shown as underlined set the door open time in seconds for relay no.1. The last 2no. digits set the door open time for relay no.2. A rapid series of beeps indicates that you have programmed successfully.

You must set the relay/lock command time for relay no. 2 even if you are not using relay no. 2. If you have linked relays 1 & 2 together, you must set the same open times for both.

#### STEP 2

Now set the Master Code of your choice.

This is the code that allows you to access programming mode without having to open up the keypad and flicking switch SW5.

#### The Master Code is always stored in Slot 30.

The Master Code can be any length of digits/characters/symbols minimum 3, maximum 8.

After a beep enter on the keypad:

**30 4 2901** \_\_\_\_\_\_\_ Master Code

Length of Code

if you want your Master Code to be 2901

This is an example only. SET THE MASTER CODE OF YOUR CHOICE

A rapid series of beeps indicates that you have programmed successfully.

#### STEP 3

Slot No.

Turn off programming switch SW5.

#### **PROGRAMMING/ADDING USER CODES** STEP 4

User codes can be any length of digits/characters/symbols - minimum 3, maximum 8.

#### User codes are stored in Slots 01-26. Example: 01, 02, 03... 26.

Enter the Master Code you set in STEP 2 and wait for the beeps.

After a beep enter on the keypad:

01 3 494 User Code .....to program User Code 494 into Slot 01 Slot No.

A rapid series of beeps indicates that you have programmed successfully.



.....to program User Code 5519 into Slot 02

A rapid series of beeps indicates that you have programmed successfully.

#### Now press B or # to escape from programming.

















# Noralsy™ Keypad 30 Codes / 1 Relay



MASTERING ACCESS CONTROL<sup>™</sup>

#### TOP POINTS TO REMEMBER

- 1. Up to 29 user entry codes available at any one time.
- 2. Codes are stored in slots numbered 01, 02, ....05 and 07, 08......30.
- 3. Master Code = Programming code and must be stored in Slot 06.
- 4. Each code can be any mix of digits/letters from 3 to 8 in length.

#### **TIP - WHEN YOU ARE PROGRAMMING**

Enter the numbers in quick succession after a beep. Do not wait more than 2-3 seconds in between entering numbers as this will confuse the keypad. If you have correctly programmed, you will hear a rapid series of beeps.

SET-UP ON INSTALLATION					
Wire up according to appropriate electrical schematic for your installation, then power up the unit.					
Flick the programming switch SW1 and wait for unit to start beeping every 3 seconds.					
SET THE MASTER CODE. IT MUST BE STORED IN SLOT 06.					
Example: You want the following MASTER CODE: 74AB6					
After a beep enter on the k	eypad:	_			
06 Master Code Slot N	lumber	<b>5</b> Length of Code	74AB6 Master Code Itself		
If you have correctly entere	nd the Master C	de you will bear 2no, series of rapid	heens		
Turn off Programming Switch SW1. You can now effect all programming simply by entering the Master Code and waiting for the programming beeps.					
		SETTING USER DOOR ENTRY	CODES		
Enter the Master Code onto	o the keypad an	d wait for the beeps.			
Example: you want the follo	owing codes:	A94 564B52	= 3 digits = 6 digits		
After a beep enter on the k	eypad:				
01		3	A94		
Slot Number	r	Length of Code	Code Itself		
<b>02</b>		<b>6</b>	564B52		
	r -l intl-t	Length of Code	Code Itself		
NOTE CAREFULLY: NO CO	des into slot no	. Ub as this is for the Master Code !			
Press B to escape from pro	ogramming.	a want to change the Master Odde).			
		DELETING USER DOOR ENTRY	CODES		
As all door entry codes are	stored in slot n	umbers 01 - 05 and 07 - 30, it is eas	y to delete a code from the system.		
NOTE CAREFULLY - Do n	ot delete slot no	b. 06 unless you are going to input a	new Master Code whilst still in programming mode !		
Example - Your codes are:					
A94		for Mr Smith	stored in Slot 01		
204022 To delete Mr Smith's code	$- \Lambda 94 - from the$	lof Stall use	Stored IN Slot 02		
Fotor the Master Code and the keyned and welt for the beene					
After a been enter on the k	evpad		Δ.		
Allel a beep eiller off the k	eypau.	Slot Number	Delete Command		
Press B to escape from pro	ogramming.				
Note 1. You do not have to	know the actua	al code itself which needs to be delet	ted, only the slot in which it is stored.		
Note 2. Capacity is never reduced as a result of deleting codes. You can always add or change codes.					
SETTING LOCK OPEN TIME					
Enter the Master Code onto the keypad and wait for the beeps.					
Lock open time can be set at <b>0.2</b> seconds or <b>01 - 99</b> seconds.					
After a beep enter:	00 00	or 0.2 seconds (automation control)			
	00 05 1	or 05 seconds			
	00 10 1	or 10 seconds			
	00 19 1	or 19 seconds etc			
Press B to escape from programming.					

If you do not press B to escape from programming, the keypad automatically reverts to normal mode after 20 seconds.







# Noralsy Speaker MIHP/6 with 1131 Audio Handsets



ELEC/INST/301



Audio Entry 2 Entrances Automatic Switching



## ELEC/INST/303



# Automation Control / Volt Free MIHP/6 Speaker Audio System





11





Audio Entry 3 or 4 Entrances Automatic Switching

# ELEC/INST/304





Audio Entry 5 or 6 Entrances Automatic Switching



## ELEC/INST/304X



Audio Entry 7 or 8 Entrances Automatic Switching

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# ELEC/INST/304Y

