

Economy functional & digital audio access systems

Audio 8 & 16
Functional & Digital
Installation Manual



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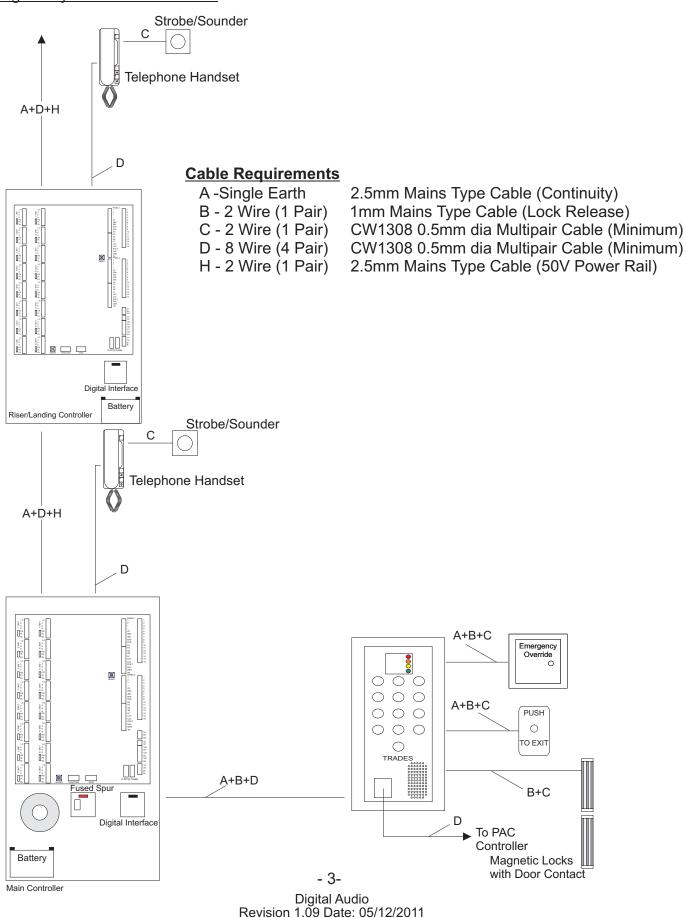
E-mail sales@selectman.co.uk - http://www.selectman.co.uk

Digital Video Revision 1.08 Date: 05/12/2011

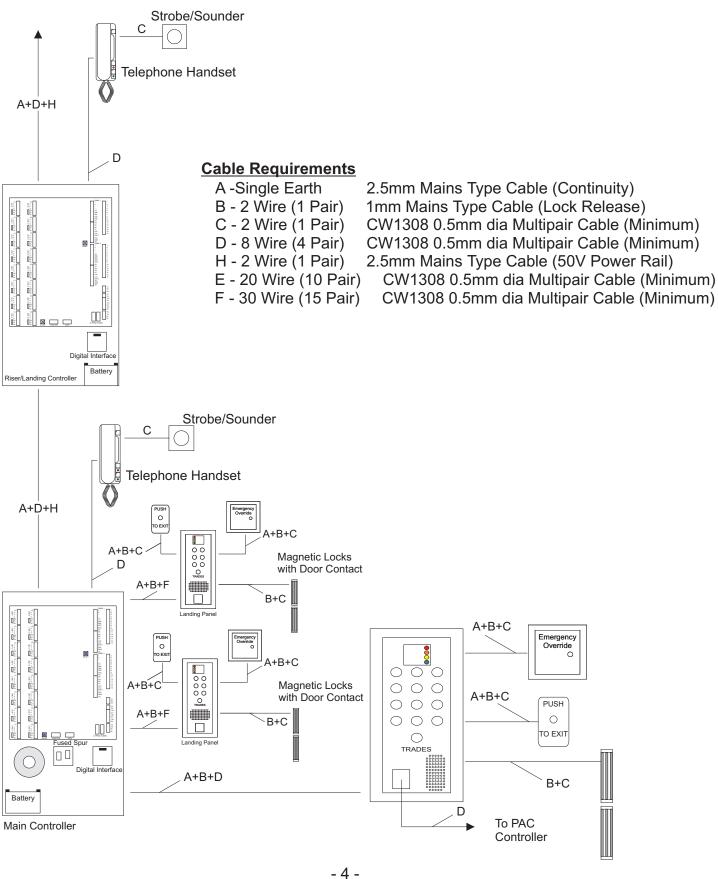
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Digital Audio Systems

<u>Digital System Basic Overview</u>

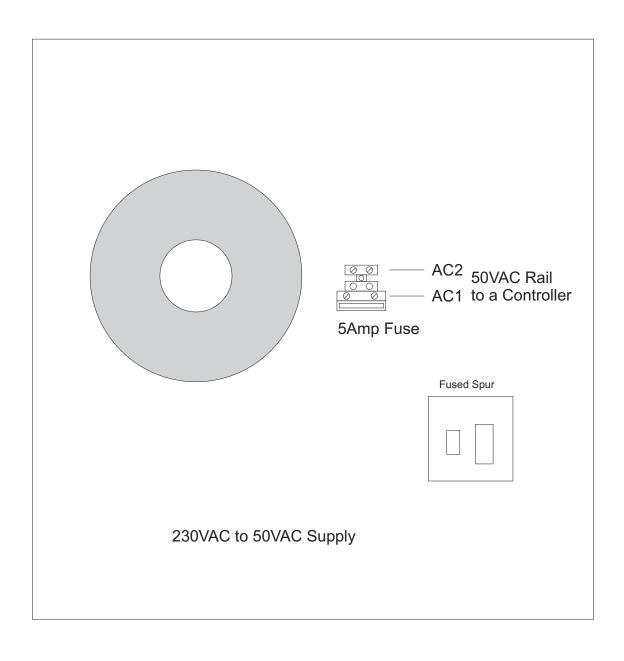


<u>Digital System with Landing Controller Overview</u>

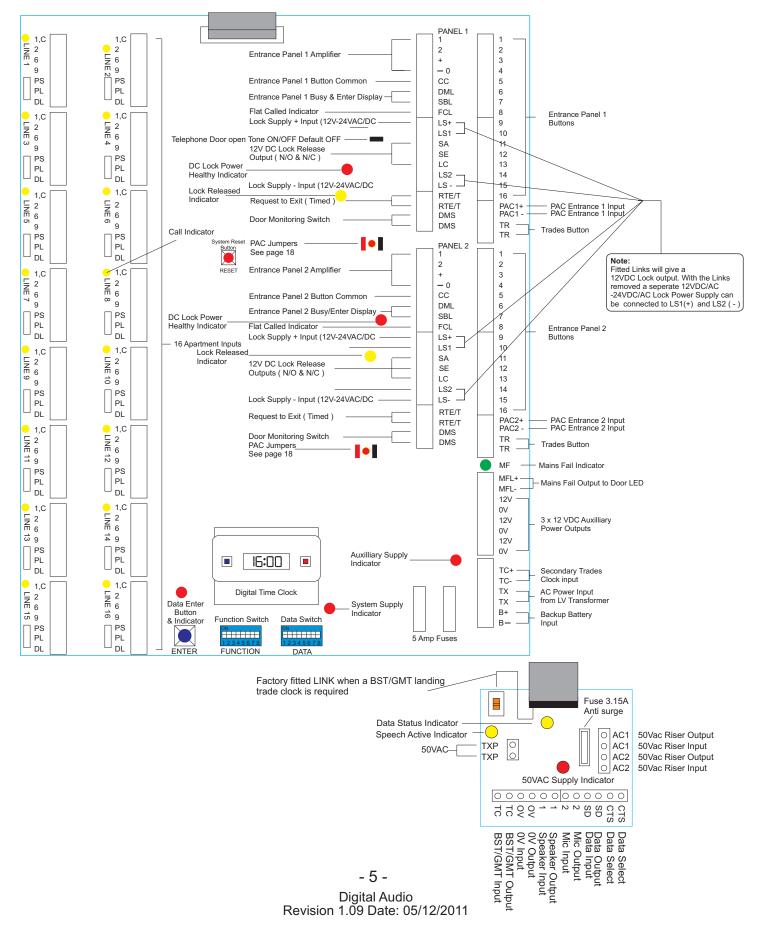


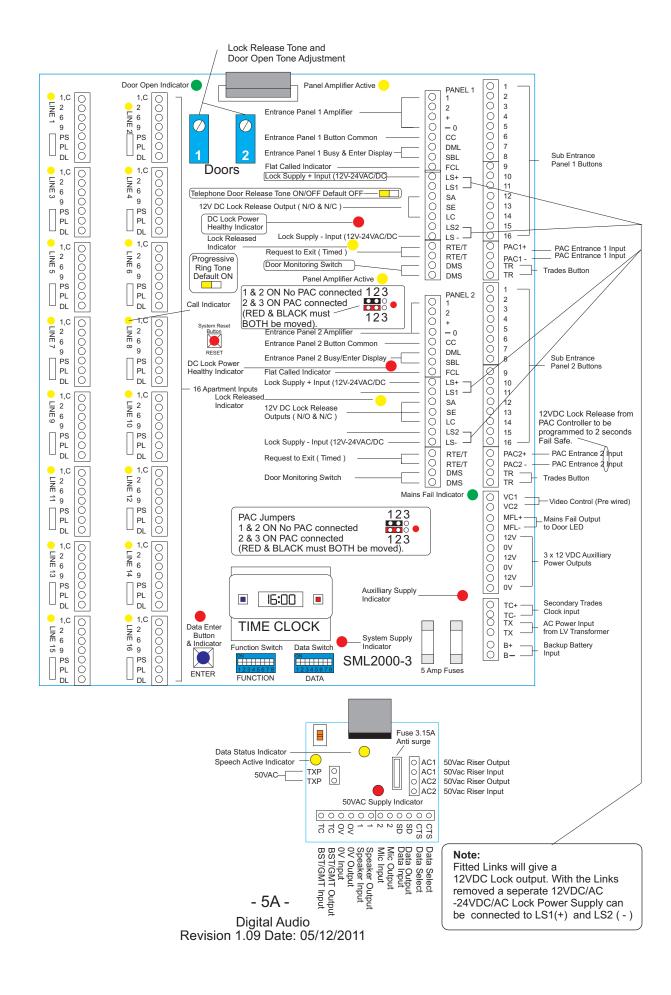
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Digital 50VAC Main Power Supply Overview

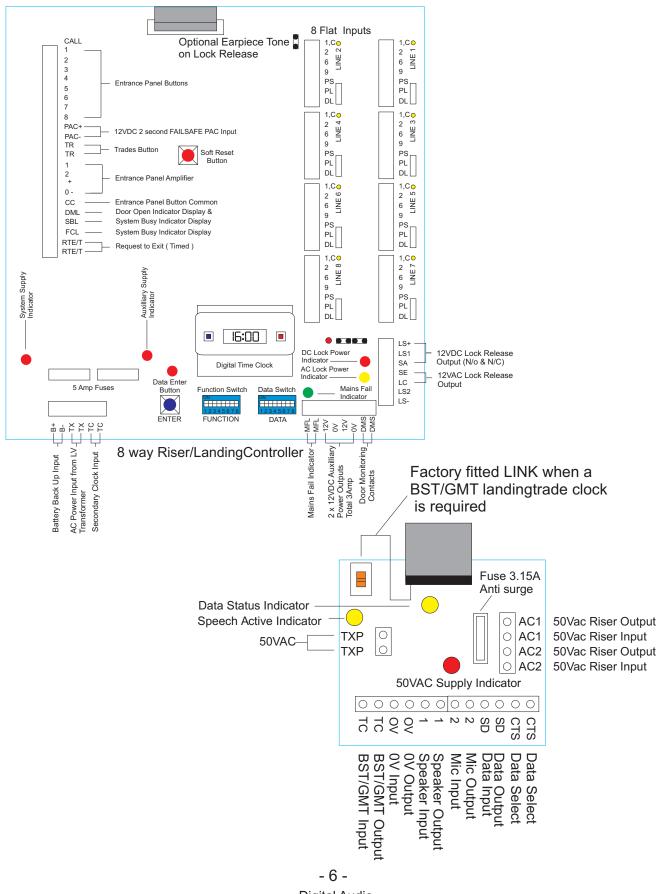


16 way Main, Riser and Landing Controller Overview



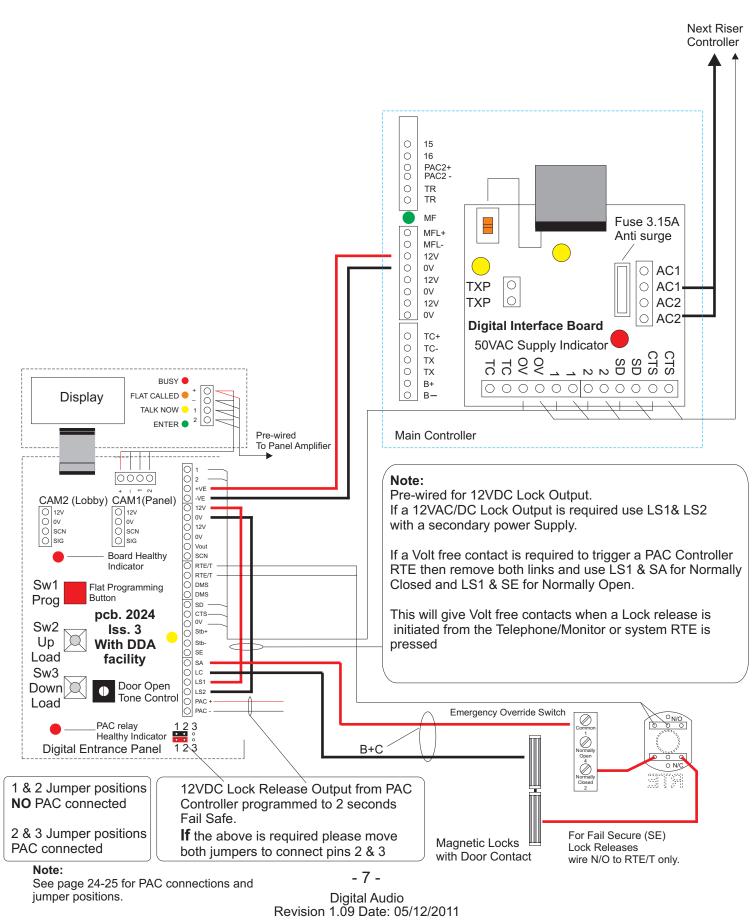


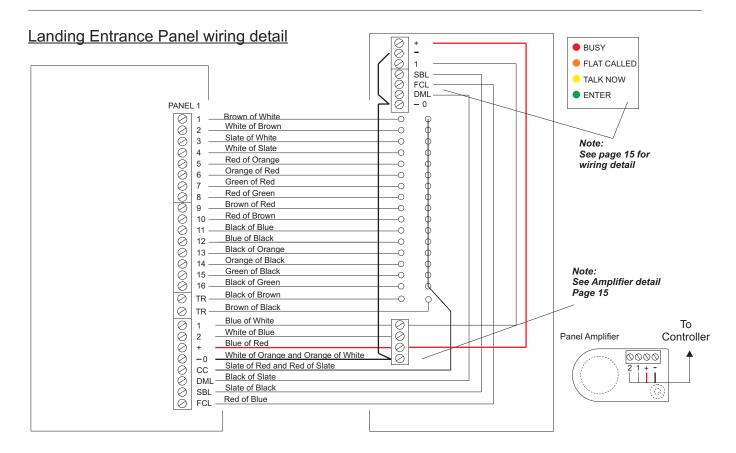
8 way Main, Riser and Landing Controller Overview



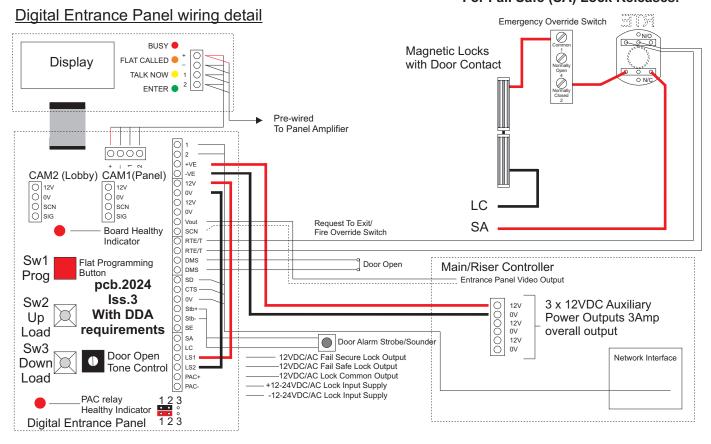
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Digital Network & Power Overview





For Fail Safe (SA) Lock Releases.

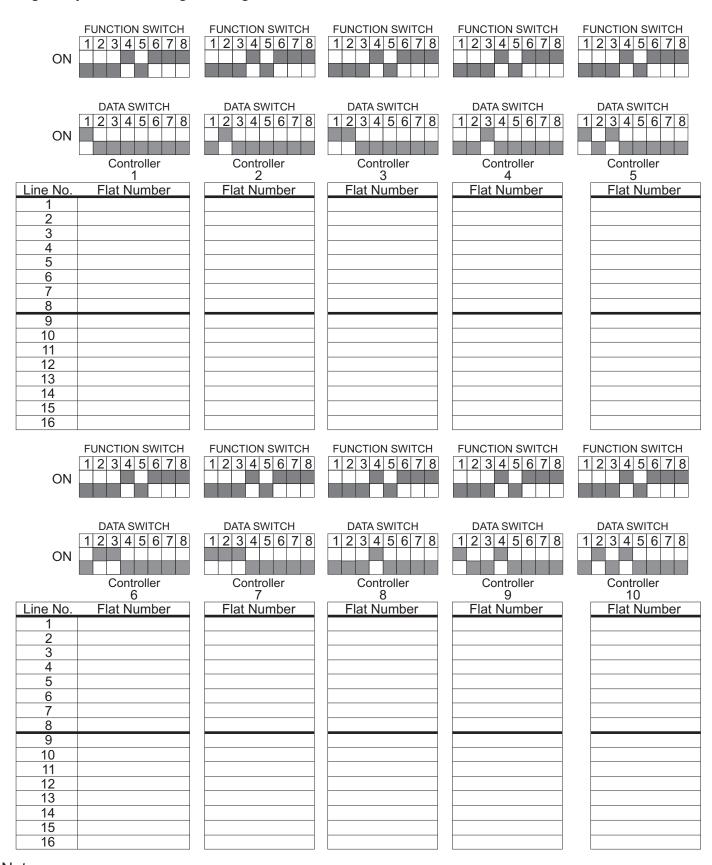


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Concierge Building Interface Card (Multi-Building) wiring detail Main Controller 12V 0V 12V Fuse 3.15A Digital Entrance Panel Anti surge BUSY (O AC1 Controller 2 TXP O AC1 Interface 0 TXP 0 AC2 Card Pre-wired O AC2 To Panel Amplifier 50VAC Supply Indicator CTS CTS SD SD 2 2 1 1 OV TC TC +VE CAM2 (Lobby) CAM1(Panel) -VE 00000000000 O 12V O 0V O SCN O SIG 12V O 0V O SCN O SIG 12V 0V 12V Vout **Board Healthy** SCN Indicator RTE/T RTE/T DMS Sw₁ Fuse 3.15A Flat Programming DMS Anti surge Prog Button SD CTS 0V Stb+ AC1 Sw2 Controller 2 TXP AC1 0 Up Interface Stb-TXP 0 AC2 SE Card Load O AC2 Sw3 LC 50VAC Supply Indicator Door Open LS1 Down O LS2 Tone Control CTS CTS SD SD 2 2 7 4 5 4 7 Load PAC+ PAC relay 123 Healthy Indicator :: 0 00000000000 Digital Entrance Panel 0 DIGITAL PANEL O M O A1 Out N/O - N/C Auxiliary Output 1 1 0 0 2 000 0 SD 0 С CTS Telephone N/O - N/C Auxiliary Output 2 12V 0 Audio to and Switched via 0 0 0V 0V from Concierge С the Data Line INTERFACE N/O - N/C Auxiliary Output 3 0 2 SD 0 С A40ut N/O - N/C Auxiliary Output 4 CTS 12V 0V Auxiliary Output On/Off Aux1In Auxiliary Input 1 12V 12VDC Supply from 12VDC 12V Auxiliary Input 2 ControllerAuxiliary Aux2In 0V 0 Hard Wired 0V S1 000 Input Switches Aux3In Auxiliary Input 3 \circ S2 Remote Speech Adjustment Auxiliary Input 4 Aux4In L1 L2 00000 Aud1 0 A0 Audio Microphone Transmission Aud1 0 Aud2 Audio Speaker Transmission Α2 Aud2 0 0 V in Video Input from Digital Panel V in SML-2036 00000 V Out Video Output to Concierge V Out **Building Interface card** Т D N L RS232 Transmission Input/Output 000 Α О В У RS475 RS485 Transmission Input/Output D - 8A -

Digital Audio Revision 1.09 Date: 05/12/2011

Digital System Flat Programming Form



Note:

Remember to PRESS the Enter button after setting Dill switches positions. Revision 1.09 Date: 05/12/2011

<u>Digital Entrance Panel Programming Instructions</u>

System Function Programming

Function	Description	Parameters	Notes
1	Lock Release Time	1 - 255 Seconds	
2	Door Open Duration Time	1 - 255 Minutes	
3	Door Alarm Delay Time	1 - 255 Minutes	Zero minutes will disable the Door Alarm
4	Service Access Code (AC)	1 - 5 Digits	Code + Trades to release door
5	Engineers Access Code (EA)	1 - 5 Digits	Code + Trades to release door
6	Monitor Ring Time	1 - 255 Seconds	
7	Call Duration Time	1 - 255 Seconds	
8	Set Digital Panel Number	1 - 9	
9	Communication Test facility	-	Controller Interface Data Continuity Test
10	Panel Facility Configuration	A ← ►F	Alpha Numeric, Cameras, Concierge and Door Tone On/Off
27	Erase All Memory and Reset	_	90 Second Erase on a 30 count will automatically re-set the default values

Function 1 (Lock Release)

Press 1 on the Digital Panel keypad and then press the **PROG** button.

Enter between 1 and 255 seconds and press CALL.

This will set the Lock Release duration time for that Panel.

Function 2 (Door Open Alarm Duration)

Press 2 on the Digital Panel keypad and then press the PROG button.

Enter between 1 and 255 minutes and press CALL.

This will set the Door Alarm Duration time.

Function 3 (Door Open Alarm Delay)

Press 3 on the Digital Panel keypad and then press the **PROG** button.

Enter between 1 and 255 minutes and press CALL.

This will set the Door Alarm Delay time.

Function 4 (Service Access Code)

Press 4 on the Digital Panel keypad and then press the **PROG** button.

Enter up to 5 digits and press **CALL**. This will establish a Service Access Code.

If a 5 digit service code has already been entered the Digital Panel will display **AC?** alternating with the remaining 4 numbers, i.e. **AC1 - 2345**.

This can, if required be deleted by pressing the **CANCEL** button.

Press the TRADES button, Enter Code and then press Trades or Call to release the Door.

Function 5 (Engineering Access Code)

Press 5 on the Digital Panel keypad and then press the **PROG** button.

Enter up to 5 digits and press CALL. This will establish an Engineering Access Code.

If a 5 digit engineering code has already been entered the Digital Panel will display

EA1 alternating with the remaining 4 numbers, i.e. **EA1 - 2345**.

This can, if required be deleted by pressing the CANCEL button.

Press the TRADES button, Enter Code and then press Trades or Call to release the Door.

Function 6 (Telephone Ring Time)

Press 6 on the Digital Panel keypad and then press the **PROG** button.

Enter between 1 and 255 seconds and press CALL.

This can if required be deleted by using the **CANCEL** button.

This will set the Digital Panel to Telephoner ring time.

Function 7 (Call Duration Time)

Press 7 on the Digital Panel keypad and then press the **PROG** button.

Enter between 1 and 255 seconds and press CALL.

This can if required be deleted by using the **CANCEL** button.

This will set the Digital Panel to Telephone Call Duration time.

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<u>Digital Entrance Panel Programming Instructions cont...</u>

System Function Programming cont...

Function 8 (Setting Digital Panel Number(s))

Press 8 on the Digital Panel keypad and then press the PROG button.

Enter from 1 to a maximum of 8 depending on the position of the Digital Panel in the system and press **CALL**.

If required a set Panel position can be deleted by using the **CANCEL** button.

This will set the Digital Panel position in a Single or Multi Entrance system.

Function 9 (Data Communication Test Facility)

Press 9 on the Digital Panel keypad and then press the **PROG** button.

The display will now scroll through all connected Controller Interfaces on the system only pausing when data continuity is broken.

This will establish all Controllers have continuity of Data.

Function 10 (Panel Facility Configuration)

Press 10 on the Digital Panel keypad and then press the **PROG** button.

The display will now show the factory default setting as shown on the rear of the Digital panel. If there is a requirement to change the default mode then press **CANCEL**, enter the new code number and press **CALL**

to accept the change.

Concierge with Panel & Lobby Camera without Door	Concierge with Panel & Lobby Camera with Door	Non Concierge Panel & Lobby Camera without Door	Non Concierge Panel & Lobby Camera with Door Open Tone
Open folie	Open folie	Open folie	Open folie
006 014	070 078	007 015	071 079
022	086	023	087
030	094	031	095
038	102	039	103
046	110	047	111
054	118	055	119
	Panel & Lobby Camera without Door Open Tone 006 014 022 030 038 046	Panel & Lobby Camera Panel & Lobby Camera without Door Open Tone Open Tone 006 070 014 078 022 086 030 094 038 102 046 110	Panel & Lobby Camera without Open Tone Panel & Lobby Camera with Door Open Tone Panel & Lobby Camera without Open Tone 006 070 007 014 078 015 022 086 023 030 094 031 038 102 039 046 110 047

Function 27 (Erase All Memory and Reset System to Default)

Press 27 on the Digital Panel keypad and then press the **PROG** button. This will put the system into erase mode. Erase mode will be indicated by the Display initially reading **E.000** and then following on with a count of 30. The system will not reset itself to default at 30. To initiate the default setting, the batteries must be disconnected and the Fused spur must be switched off. This must be for a period of no less than 5 seconds or the extinguishing of the on board healthy LED's

Once instigated the erasing of the system cannot be stopped until completion (Approximately 90 seconds).

Note:

Default settings are as follows,

Function 1	Lock Time	10 seconds
Function 2	Door Alarm Delay Time	OFF
Function 3	Door Open Duration Time	OFF
Function 4	Service Access Code	Blank
Function 5	Engineers Access Code	Blank
Function 6	Telephone Ring Time	30 seconds
Function 7	Call Duration Time	30 seconds

Function 8 Digital Panel Position No. 1

Function 10 Panel Facility Configuration 007 (No Door Open Tones)

Note:

On a Multi Entrance system it is important that all Digital Panels are assigned an individual position number (FUNCTION 8) AFTER Downloading system data.

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<u>Digital Entrance Panel Programming Instructions cont...</u>

Main and Riser/Landing Controllers

- 1) Program the Main and Riser/Controllers to the Functional System installation manual.
- 2) Set all Controllers to their specified Riser/Landing positions for a Digital System. (See Controllers and Flat Location form).

Digital Entrance Panel Programming

An existing or previously used Digital Panel at switch on having pressed the **PROG** button should read **01.01** and will then alternate between **01.01** and a clear display or the previously entered flat number.

To Start Programming

- 1) Press the **PROG** button. The Panel display should now read **01.01**, **Blank or Digits**.
- 2) Press **CANCEL** to clear the previously programmed flat number(s) if required.
- 3) Enter flat number required and press **CALL** to store the flat number you have selected.
- 4) The display should now read **01.02**.
- 5) If a new Digital Panel continue with item 3 until all required flats are programmed.
- 6) If you are programming an existing or previously used Digital Panel continue with items 2 & 3 until all required flats are programmed.

Finally press the PROG button to exit the programming mode.

Note 1:

When there is a need to edit or check an already programmed flat on the system use the following procedure.

Enter Controller number i.e. **2**. Enter Line Output number i.e. **03** and press **PROG**. To edit a flat number press **CANCEL** enter new flat number and press **CALL** to store. Finally press **PROG** to exit edit mode.

The Edit/Check flat number operation is now complete.

Note 2:

01.01 relates to **01.** Controller position and **.01** Telephone/Monitor Line 1.

Note 3:

On initial programming if the Red Busy Indicator on the Digital Panel flashes when a flat is called and does not ring, either the flat has not been programmed or the Privacy is in the **ON** mode.

Digital Entrance Panel Controls

PROG button Used to put the Digital Panel in and out of programming mode.

UPLOAD button With the Primary Digital Panel programmed pressing the

UPLOAD button(s) on all Secondary Panels will make them

ready for information to be downloaded.

DOWNLOAD button Pressing the **DOWNLOAD** button on the Primary Digital Panel will send

program information to all prepared Secondary Digital Panels.

INTERNAL Volume Digital Panel to Telephone/Monitor volume adjustment

EXTERNAL Volume Telephone/Monitor to Digital Panel volume adjustment

<u>Digital System Summary</u> <u>Digital Entrance Panel Board</u>

1	Speaker Input
2	Microphone Input
+VE	12VDC Positive Input
-VE	12VDC Negative Input
12V	12VDC Positive Output
0V	12VDC Negative Output
12V	12VDC Positive Output
0V	12VDC Negative Output
Vout	Video Core Output
SCN	Video Screen Output
RTE/T	Request to Exit (Timed)
RTE/T	Request to Exit (Timed)
DMS	Door Monitoring Switch
DMS	Door Monitoring Switch
	5 . 6

SD Data Select
CTS Data Select
0V 0 Volts

Stb+ Positive External Alarm Strobe/Sounder Stb - Negative External Alarm Strobe/Sounder

SE Fail Secure Lock Release Output
SA Fail Safe Lock Release Output

LC Lock Release Common

LS1 12VDC Output (With Links in)
LS2 12VDC Output (with Links in)
PAC+) 12VDC from PAC Lock Output

PAC-)

SW1

SW2

SW3

2 Seconds FAILSAFE

Programming Button

Upload Button

Download Button

SW4 Door Open Tone Adjustment

CAM1-2 12V Camera 12VDC CAM1-2 0V Camera 12V 0V

CAM1-2 SCN Camera 1-2 Video Screen Input CAM1-2 SIG Camera 1-2 Video Signal Input

Interface Board

AC1 50VAC Input
AC2 50VAC Input
AC1 50VAC Output
AC2 50VAC Output
CTS Data Select Input
CTS Data Select Output

Data Input SD **Data Output** SD 2 Microphone Input 2 Microphone Output 1 Speaker Input Speaker Output 1 0 Volt Input 0V 0V 0 Volt Output

TC Trades Clock with Landing Control
TC Trades Clock with Landing Control
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Digital System Wiring Colour Codes

Main Controller To Digital Entrance Panel Board

Main Controller Digital Entrance Panel Board

12V	1mm Mains Type Cable	+12VDC Output
0V	1mm Mains Type Cable	-12VDC Output

Main Controller Interface to Digital Entrance Panel Board

Main Controller **Digital Entrance Panel Board** 1 Blue of White Speech Input 2 White of Blue Microphone Input

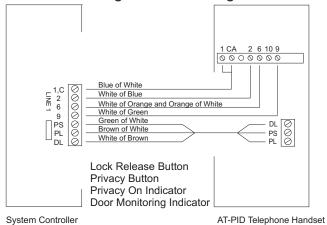
SD White of Brown Data Output CTS Brown of White Data Select 0V Orange of White **0V Common Line**

Main Controller Interface to Riser/Landing Controller Interface

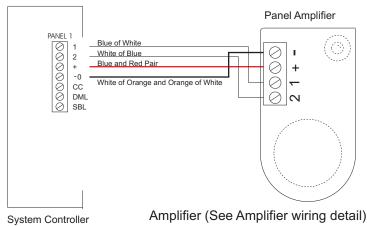
		Riser/Landing Controller Interface
<u>Main</u>	Controller Interface	
AC1	2.5mm Mains Type Cable	50VAC System Power Input/Output
AC2	2.5 Mains Type Cable	50VAC System Power Input/Output
CTS	Brown of White	Data Select
SD	White of Brown	Data Output
1	Blue of White	Speech Output
2	White of Blue	Microphone Output
0V	Orange of White	0V Common Line
TC	Green of White	Trades Clock with Landing Control

AT-PID Telephone

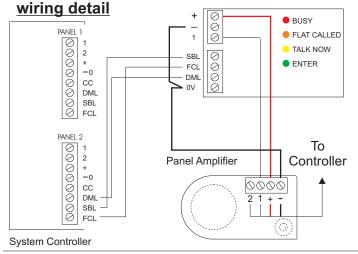
Privacy, Privacy On Indicator and Door Monitoring Indicator wiring detail

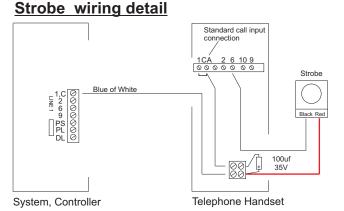


Landing Panel Amplifier wiring detail



Entrance Panel DDA Display

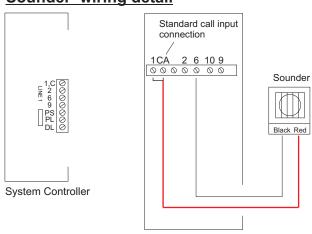




Note:

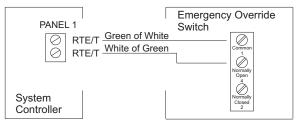
Please refer to the Controller Programming Instruction sheet in the Functional & Digital Installation Manual on how to initiate the powering of the Strobe.

Sounder wiring detail

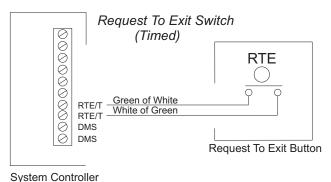


Telephone Handset

For Fail Secure (SE) Lock Releases.

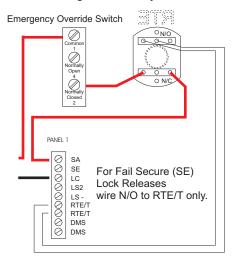


Request To Exit (Timed) wiring detail

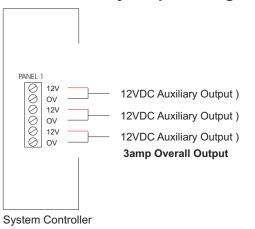


For Fail Safe (SA) Lock Releases.

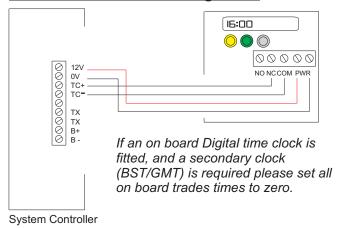
For Landing Panels only



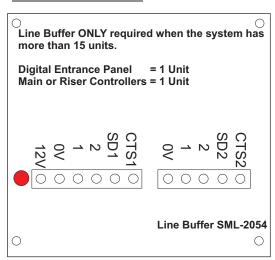
12VDC Auxiliary Output wiring detail



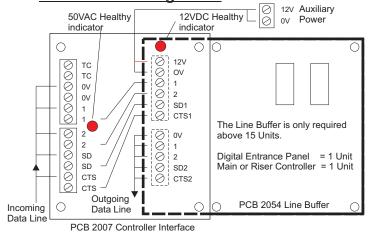
External Time Clock wiring detail



Line Buffer detail



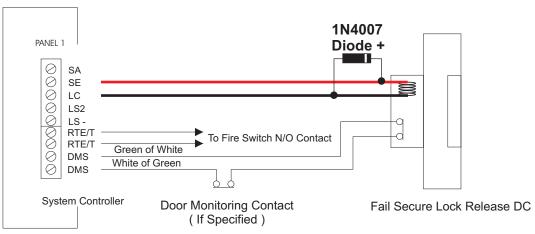
Line Buffer wiring detail



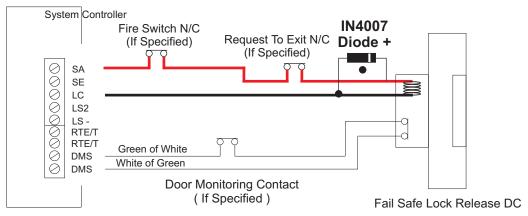
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DC Fail Secure Lock Release wiring detail



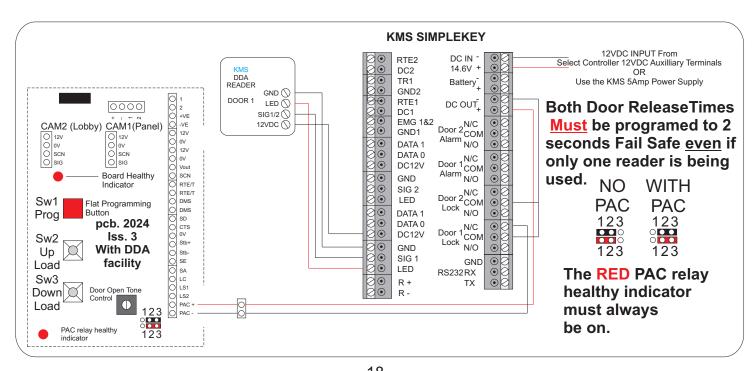
DC Fail Safe Lock Release wiring detail



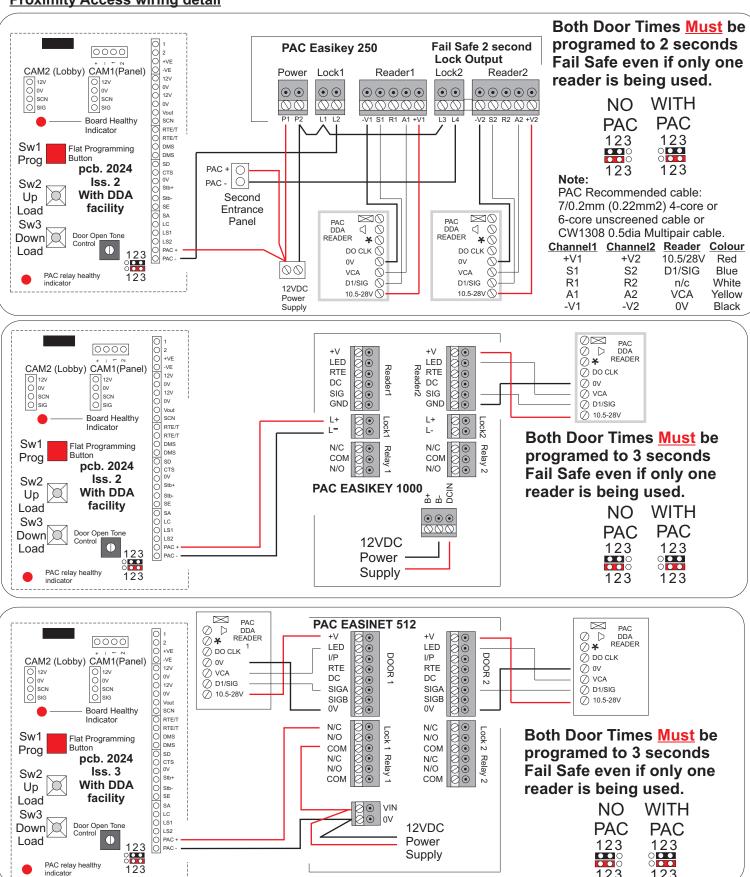
Note:

- a) If Door Monitoring is not required, then link DMS to DMS with a wire link.
- b) It is important that a 1N4007 diode is fitted at the lock release if you are using the System
 Controller for lock release power, This is to protect the System Controller against back EMF.
 If the locks are being powered by a PAC Controller then use the MOV supplied with the PAC reader.

Proximity Access wiring detail



Proximity Access wiring detail



System Controller Summary

Connection Detail

Controller 1,C 2 6 9 PS PL DL	Telephone Handset Speaker/Electronic Call Microphone Common Lock Release Privacy Switch Privacy On Indicator Door Monitoring Indicator
1 2 +	Panel Amplifier Detail Speaker Microphone +6VDC -6VDC
DML SBL FCL	Entrance Panel Detail Enter Indicator System Busy Indicator Flat Called Indicator
CC	Button Common
TR TR	Trades Detail Trades Button Trades Button
RTET RTET	Request To Exit (Timed) Request To Exit (Timed)
LC SA SE LAC LAC	Lock Release Detail Lock Common (DC) Fail Safe (DC) Fail Secure (DC) Fail Secure (DC) Fail Secure (DC)
PAC	PAC Detail See page 18-18A
Tx Rx 0V	Serial Connection Transmit Receive Common

Controller TC TC Note: N/O Clean Contacts	Trades Clock Secondary Trades Clock Secondary Trades Clock
0V 12V	Auxiliary Supplies 3 x 0V Output
Note: 3 Amp Overall Output	3 x 12VDC Output
TX TX	Power Input to Controller 12Vac Input 12Vac Input

Controller Programming

To be used in conjunction with the Controller Programming Instruction.

PROGRAMMING LINES

By setting all **FUNCTION** switches to **ON** and then pressing enter will set the system to default. (See Controller function Programming for set up and manufactures default settings). **Note:** If a Controller has already been set with an address this will be deleted. Select the line number to program using the **FUNCTION** switches 1 - 5, note that position 6, 7 and 8 are always in the **OFF** position. (See Controller Programming Instruction).

Next using the **DATA** switches 1 to 4 set the Privacy time. For Call volume and Call type, set **DATA** switches 5, 6 and 7 to the required positions. At this time, setting **DATA** switch 8 to the **ON** position will program a Strobe, Sounder or both. (See Controller Programming Instruction).

Finally pressing the enter button will save the current Line information to memory. Continue until all Lines are programmed.

LOCK RELEASE PROGRAMMING

Use the **FUNCTION** switches to select Entrance Panel 1 and the **DATA** switches to select the number of seconds for the release duration. Select the lock release duration time using the **TIME SELECTION** seconds chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

TELEPHONE RING TIME FROM THE ENTRANCE PANEL

Use the **FUNCTION** switches to select Entrance Panel 1 and the **DATA** switches to select the number of seconds for the ringing time duration. Select the ring time duration using the **TIME SELECTION** seconds chart.(See Controller Programming Instruction).

Repeat for Entrance Panel 2

ENTRANCE PANEL TO TELEPHONE CALL DURATION TIME

Use the FUNCTION switches to select Entrance Panel 1 and the DATA switches to select the number of seconds for the call duration time. Select the call duration time using the TIME SELECTION seconds chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

DELAY BEFORE DOOR ALARM ACTIVATION

Use the FUNCTION switches to select Entrance Panel 1 and the DATA switches to select the number of minutes for the delay time. Select the Door Alarm delay duration time using the TIME SELECTION minutes chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

DOOR ALARM DURATION TIME

Use the FUNCTION switches to select Entrance Panel 1 and the DATA switches to select the number of minutes for the alarm duration. Select the Door Alarm duration time using the TIME SELECTION minutes chart. (See Controller Programming Instruction).

Repeat for Entrance Panel 2

If required, the System Controller can send serial data to a PC.

Controller Programming Settings

			ON								ON							_
			1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
SYSTEM CONFIGURATION	Notes				JNC	,			СН					TA S				
		ı	1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
Default setting for all items			1	1	1	1	1	1	1	1	X	X	X	Х	Х	Х	Х	Х
Send setup to serial Port			0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	0
	4	Г									_			_			. 1	_
Low Call Volume and Privacy Time	1	-	L.	_L	ļ.	L.	L	0	0	0	P	P	P	P	0	1	1	E
Medium Call Volume and Privacy Time	1	-	L	L	L	L	L	0	0	0	P	Р	Р	Р	0	0	1	E
Nominal Call Volume and Privacy Time	1	-	L	L	ļ.	L	L	0	0	0	P	P	P	P	0	1	0	E
High Call Volume and Privacy Time	1_	-	L	L	L	L	L	0	0	0	P	P	P	P	0	0	0	E
Buzzer and Privacy Time	1	L	L	L	L	L	L	0	0	0	Р	Р	Р	Р	1	0	0	Е
Lock Release Time. Entrance Panel 1	2	Γ	1	0	0	0	0	0	1	0	S	S	S	S	S	S	S	S
Lock Release Time. Entrance Panel 2	2		0	1	0	0	0	0	1	0	S			S	S	S	S	S
Telephone Directions Entered Devol	2	Г	4	_				_										
Telephone Ring Time. Entrance Panel 1	2	-	1	0	0	0	0	1	1	0	S	S	S	S	S	S	S	S
Telephone Ring Time. Entrance Panel 2	2	L	0	1	0	0	0	1	1	0	S	S	S	S	S	S	S	S
Call Duration Time. Entrance Panel 1	2	ſ	1	0	0	0	0	0	0	1	S	S	S	S	S	S	S	S
Call Duration Time. Entrance Panel 2	2		0	1	0	0	0	0	0	1	S			S	S	S	S	S
Delay before Door Alarm. Entrance Panel 1	3	Γ	1	0	0	0	0	1	0	1	М	М	М	М	М	М	М	М
Delay before Door Alarm. Entrance Panel 2	3	f	0	1	0	0	0	1	0	1	М	_	_	М	М	М	М	М
Door Alarm Duration Time. Entrance Panel 1	4	ŀ	1	0	0	0	0	0	1	1	М	М	М	М	М	М	М	М
Door Alarm Duration Time. Entrance Panel 2	4	ŀ	0	1	0	0	0	0	1	1	М	_	_	М	М	М	М	М
Controller Address (Functional switch always the san	-		0	0	0	1	0	1	1	1	N	N		N	N	N	N	N

IMPORTANT: Please do not forget to press the Enter button after making a selection.

(See Flat Programming Sheet)

- 1) If an Extension Sounder or Strobe be required set Data switch 8 (E) to ON.
- 2) Do not set a value of Zero seconds or the system will not time out.
- 3) Set all Data switches to the OFF position if no Door Alarm is required.
- 4) Set all Data switches to ON position if the Door Alarm is to operate continuously.

1 = ON X = Any Position 0 = OFFS = Seconds L = Line Number (Telephone) M = Minutes P = Privacy Time (Telephone) N = Number E = Extension Strobe/Sounder as required (See note 1)

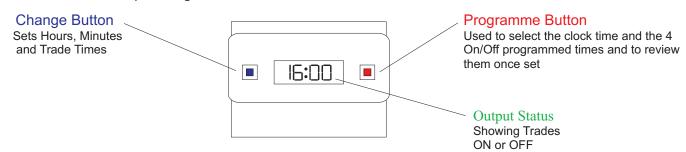
LINE SELECTION (L)			TIME SELECTI	ON (M/S) & CONTRO	PRIVACY TIMER SEL	EC1)							
Line Number	Fund	etic	n S	wit	tch		Data Switch	Number of (M)inutes or (S)econds	Controller Address (N)umber	Privacy Timer (M)inutes and Hours	Da 1	ta S	wit 3	ch 4
		1	2 3	4	1 5	1	ON	1	1	NO TIME (Remains on	0	0	0	0
1		1	0 0	C	0 0	2	ON	2	2	until manually switched off)	-	-	-	-
2	(0	1 0	C	0 0	3	ON	4	4	10 Minutes	0	1	0	0
3		1	1 0	C	0 0	4	ON	8	8	20 Minutes	0	0	1	0
4	(0	0 1	C	0 0	5	ON	16	16	30 Minutes	0	1	1	0
5		1	0 1	C	0 0	6	ON	32	32	40 Minutes	0	0	0	1
6	(0	1 1	C	0 0	7	ON	64	64	50 Minutes	0	1	0	1
7		1	1 1	C	0 0	8	ON	128	Not Used	60 Minutes	0	0	1	1
8	(0	0 0	1	1 0					70 Minutes	0	1	1	1
9		1	0 0	1	1 0					2 Hours	1	0	0	0
10	(0	1 0	1	1 0	1				4 Hours	1	1	0	0
11		1	1 0	1	1 0		Note: 1) Select the combination that adds up to the			6 Hours	1	0	1	0
12	(0	0 1	1	1 0	C	or Controller A	ddress Number (Ma	x 99).	8 Hours	1	1	1	0
13		1	0 1	1	1 0	_				10 Hours	1	0	0	1
14	Line lumber Function Switch 1 2 3 4 5 1 1 0 0 0 0 2 0 1 0 0 0 3 1 1 0 0 0 4 0 0 1 0 0 5 1 0 1 0 0 6 0 1 1 0 0 7 1 1 1 0 0 8 0 0 0 1 0 9 1 0 0 1 0 10 0 1 0 1 11 1 1 0 1 0 12 0 0 1 1 0 13 1 0 1 0	2	,	•	t be in the	12 Hours	1	1	0	1				
15		1 2 3 4 5		14 Hours	1	0	1	1						
16		0	0 0	C	1					16 Hours	1	1	1	1

Controller Programming Example Settings

			ON	П					Т	Т	ON						Т	\neg
			<u> </u>		_				_	_	<u> </u>	L_					_	
			1	2	3	4	5	6	7	8	1	2	3	4	5	6	7	8
EXAMPLE SYSTEM	Notes	1	FUI 2	VCT 3	ION 4	_	TC 6		8	DATA SWIT					CH 6	8		
Default setting for all items	efault setting for all items						5	1	_	1	1 X	2 X	3 X	4	5	X	_	X
Send setup to serial Port			0	0	0	0	0	1	1	1	0	0	0	0	0	0	0	Χ
										_								
Low Call Volume and Privacy Time	Line1-Privacy 10 Mins	1	1	0	0	0	0	0		0	0	1	0	0	0	1	1	0
Medium Call Volume and Privacy Time	Line5-Privacy 50 Mins	1	1	0	1	0	0	0		0	0	1	0	1	0	0	1	0
Nominal Call Volume and Privacy Time	Line9-Privacy 4 Hours+Strobe	1	1	0	0	1	0	0	0	0	1	1	0	0	0	1	0	1
High Call Volume and Privacy Time	Line12-Privacy 8 Hours	1	0	0	1	1	0	0	0	0	1	1	1	0	0	0	0	0
Buzzer and Privacy Time	Line16-Privacy 12 Hours+Strobe	1	0	0	0	0	1	0	0	0	1	1	0	1	1	0	0	1
Lock Release Time, Entrance Panel 1	16 seconds	2	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0 [0
Lock Release Time. Entrance Panel 2	10 Seconds	2	0	1	0	0	0	0	1	0	0	1	0	1	0	0	0	0
Telephone Ring Time. Entrance Panel 1	32 Seconds	2	1	0	0	0	0	1	1	0	0	0	0	0	0	1	0	0
Telephone Ring Time. Entrance Panel 2	24 Seconds	2	0	1	0	0	0	1	1	0	0	0	0	1	1	0	0	0
Call Duration Time. Entrance Panel 1	20 Seconds	2	1	0	0	0	0	0	0	1	0	0	1	0	1	0	0	0
Call Duration Time. Entrance Panel 2	32 Seconds	2	0	1	0	0	0	0	0	1	0	0	0	0	0	1	0	0
Delay before Door Alarm. Entrance Panel 1	5 M inutes	3	1	0	0	0	0	1	0	1	1	0	1	0	0	0	0	0
Delay before Door Alarm. Entrance Panel 2	8 M inutes	3	0	1	0	0	0	1	0	1	0	1	0	1	0	0		0
Door Alarm duration Time, Entrance Panel 1	Continuous	4	1	0	0	0	0	0	1	1	1	1	1	1	1	1	1	1
Door Alarm duration Time. Entrance Panel 2	15 M inutes	4	0	1	0			0	•	1	1	1	1	1	1	1	0	0
Note:				1 = C	_	-		-				Any l						Ť
I) If an Extension Sounder or Strobe are required			0 = C								Seco							
2) Do not set a value of zero seconds or the system will not time out.						Numb	er (T	elen	hone))	-	: M in						
3) Set all Data switches to the OFF position if no							`		pho ne									
4) Set all Data switches to ON if the Door Open A	•					-				,	as req	uired	(See	enot	e 1)			

LIN	VE SE	LECT	TION ((L)				TIME SELEC	TION (M/S)		PRIVACY TIMER SEL	ECT	CTION (P)		
						1				Ī	Privacy Timer	Da	Data Switch		
Line	F	unct	ion S	w itc	h				Number of						
Number	1	2	3	4	5		Data Switch		(M)inutes or (S)econds		(M)inutes and Hours	1	2	3	4
1	1	0	0	0	0		1	ON	1]	NO TIME (remains on	0	0	0	0
2	0	1	0	0	0		2	ON	2]	until manually switched off)	-	•	-	-
3	1	1	0	0	0		3	ON	4]	10 Minutes	0	1	0	0
4	0	0	1	0	0		4	ON	8]	20 Minutes	0	0	1	0
5	1	0	1	0	0		5	ON	16]	30 Minutes	0	1	1	0
6	0	1	1	0	0		6	ON	32		40 Minutes	0	0	0	1
7	1	1	1	0	0		7	ON	64]	50 Minutes	0	1	0	1
8	0	0	0	1	0]	8	ON	128	Ī	60 Minutes	0	0	1	1
9	1	0	0	1	0]	70 Minutes	0	1	1	1
10	0	1	0	1	0					Ī	2 Hours	1	0	0	0
11	1	1	0	1	0]	No	te:			4 Hours	1	1	0	0
12	0	0	1	1	0		1)	Select the combination that a	dds up to the		6 Hours	1	0	1	0
13	1	0	1	1	0		rec	required time period.(Maximum 255 Min/Seconds).						1	0
14	0	1	1	1	0]			10 Hours	1	0	0	1		
15	1	1	1	1	0		2)	All switches not required	l must be in the		12 Hours	1	1	0	1
16	0	0	0	0	1		OF	F position.			14 Hours	1	0	1	1
											16 Hours	1	1	1	1

Digital Trades Clock Operating Instructions



Programming

Only two setting buttons are required, Change and Program In normal usethe Change Buttonis used to switch ON or OFF overriding the time switch until the next program ON or OFF time. During programming the Change Buttonis used to set the Hours and Minutes. The Program Button is only used when setting or adjusting the clock Time or the 4 programmed ON/OFF times, although it can be used to review the ON/OFF times once they have been set. Each time the Program Buttonis pressed the display will flash either the hours or minutes in turn, starting with the clock, then the firstON time, first OFF time, second ON time etc.

Wherever the hours or minutes are flashing they maybe set using the Change Button Once the Program Button is pressed again to proceed to the next stage.

Normal Operating Mode

In normal operation the time clock will display the correct time with the colon flashing. The output status will be shown be either ON or OFF on the display.



1. To Reset Display Mode

To clear programme from memory and reset the time controller press and hold down both buttons until the display goes blank. Release buttons and the display will fill with its complete range of



characters and then clear to show the clock and hour digit flashing.

Programming Sequence

Setting Clock
Programme 1 ON
Programme 1 OFF
Programme 2 ON
Programme 2 OFF

Programme 2 OFF

Programme 4 ON
Programme 4 OFF
Operating Mode

Note:

Button pauses greater than 0ne minute during programming will result in automatic return to the operating mode.

2. Setting Clock (after reset)

i. Hour setting— Press the Change Button to advance the hour setting. **Note:** For rapid hour selections press and hold the Change Button.



ii. Minute Setting- Press the Program Button once to select the minutes display shows clock symbol and minute digits flashing. Press the Change Button to advance the minutes setting.



Note: For rapid minute selection press and hold the Change Button (16 hours shown as example of hours set).

iii. Press the Program Button once-clock is now set and display shows ready for the first ON programme time with ON and the hours digit flashing.



3. To Set Programme ON/OFF Times (After clock setting)

Program1 ON time

i. Press Change Button to advance the hour setting.

ii. Press the Program Button once to select the minute time—display shows minute digits and ON Flashing. PressChange Button to advance the minute setting. Note: 16 hours shown as example of hours set).



iii. Press the Program Button once – the first ON time is now set and the display will show ready for the first OFF programme time.



iv. Now set the hours and minutes as before.

v. Repeat steps I to iv to set the remainder of the 3 ON/OFF times as required. **Note:** Any unused ON/OFF programs should be skipped until the display shows normal operating mode. Do not program '0's into unused programs.

4. Program Review

To fast review the set program or for quick exit to normal operating mode press and hold the Program Button

5. Initiating Programme Mode

This can be initiated at any time during the normal operating mode. Press Program Button and the clock, hours and minutes symbols on the display will flash—this is the review mode. If any change to the programmes is required press the Change Button to initiate programme mode and then follow steps 2 and 3.

6. Cancelling Programmes

Any ON/OFF programme can be cancelled by clearing its ON and OFF time. Follow step 5 and when into the ON/OFF programme to be cancelled press the Change Button until the digits show then press the Program Button to clear the programme. The display will show the hour and minute digits and ON or OFF flashing.

Self Cancelling Override

To change the output status from ON to OFF or vice versa during normal operation press the Change Button. The output status will change and indicate override is in operation by flashing.

GMT/BST TIME SWITCH

Programming Instructions
Select Manufacturing Limited
Unit H1
The Seedbed Centre
Wyncolls Road
Severalls Business Park
Colchester
Essex CO4 9HT

Connection

The 2 screw terminals marked 'PWR' need to be connected to an AC <u>or</u> DC power supply within the following voltages:-**AC:-** 7V to 21V R.M.S.

DC:- 10V to 30V

Note that if using a dc supply, it can be connected with either polarity.

The remaining 3 screw terminals are cleanSPCO relay contacts for connection to the target system.

Contact rating:-2A @ 30VDC 0.6A @ 150VAC

Display

The large LCD display shows the following information:The left hand 8 digits normally shows the date in DD/MM/YY
format. Every 30 seconds this changes to show the relay state
and the day of the week for a few moments. The right hand 8
digits shows the time in HH:MM 24 hour format. The colon
flashes to show the clock is running. The last digit shows either
'W' during winter periods (ie. GMT) or'S' during summer

periods (ie. BST). Also the last digit flashes during times when the time switch settings determine that the relay should be on.

06/03/02 17:11 S

Programming

The Time Clock is simply programmed using the three coloured buttons. The three buttons are used as follows:-PROG (Yellow) Steps between the PROG modes (date,times etc).

RIGHT (Green) Moves the curser to the next number.

UP (Grey) Increments the number at the curser.

The button auto-repeats if held down for several seconds.

The left half of the display shows a description of the data to be entered, and the right half shows the data as it is entered.

<u>Step by Step Example</u> Press **PROG** (Yellow) button.

DATE ? 06/03/02

Display shows:-

Press and hold (or repeatedly press) the UP (Grey) button until the number at the underlined curser equals the current date (ie. 1-31).

Press RIGHT (Green) button once.

The underline curser moves to the months column. Repeat pressing the **UP** (**Grey**) button until the underlined number equals the current month (ie 1-12)

Press RIGHT (Green) button once.

The underline curser moves to the years column. Repeat pressing the **UP** (**Grey**) button until the underlined number equals the current year i.e. (1-99)

Note:- It is important for proper GMT/BST operation that the correct date is entered. When the display shows the correct date:-

Press the PROG (Yellow) button.

Display shows:-

TIME ? 17:12:56

Using the Green and Grey buttons as previously set the display to the correct time (24 hour clock).

Note:- The time entered is always normal 'clock' time i.e. GMT during winter and BST during summer-time.

Press the PROG (Yellow) button.

Display shows:-

Using the Green and Grey buttons as before set the time at which you wish the time switch to come on. The third column (dy) is the day or days when this setting will operate. When this is underlined each press of the Grey button will step through the available options, which are:-

DY - Every day

MF - Weekdays i.e. Monday to FridaySS - Weekend i.e. Saturday and Sunday

Mn - Monday Only

Tu - Tuesday Only Wd - Wednesday Only

Th - Thursday Only Fr - Friday Only

SA - Saturday Only Su - Sunday Only

Of - Off i.e. Never

ON 1 ? 7:15 DY

Press the PROG (Yellow) button.

Display shows:-

Set the time you wish the time switch to switch off.

OFF 1 ? 7:30

Press the yellow button and set the ON and OFF times for the remaining 5 settings.

Note:- If one or more ON/OFF settings are not required then they can be disabled by either:- i. Setting the OFF time to be before, or the same as, the ON time. Ii. Setting the day code to 'Of' After setting the 'OFF 6' time the time switch resets and starts running with the new settings.

Manual Override

A single press of the Grey button changes the state of the output. This stays in operation until the next on or off time is reached, or the Grey button is pressed again, when normal programmed operation resumes.

Clea

If required the time switch can be completely cleared, including the date, time and all ON/OFF settings, by the following procedure.

Press and hold the Yellow button.

Press and hold the Green and Grey buttons for several seconds.

Display shows:- CLEAR? Y/N

Release all three buttons.

Press the Green button until the 'Y' is underlined.

Press the Yellow button.

Option Link

If summer-time correction is not required then cut the 'BST INHIBIT' link on the circuit board.

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Digital Audio Revision 1.09 Date: 05/12/2011

System Wiring Colour Codes cont...

Controllers to

Functional and Landing Entrance Panels

Cor	<u>troller</u>	Entrance Pa	Entrance Panel		
1	Brown of White	Button	1		
2	White of Brown	Button	2		
3	Slate of White	Button	3		
4	White of Slate	Button	4		
5	Red of Orange	Button	5		
6	Orange of Red	Button	6		
7	Green of Red	Button	7		
8	Red of Green	Button	8		
9	Brown of Red	Button	9		
10	Red of Brown	Button	10		
11	Black of Blue	Button	11		
12	Blue of Black	Button	12		
13	Black of Orange	Button	13		
14	Orange of Black	Button	14		
15	Green of Black	Button	15		
16	Black of Green	Button	16		
CC	Slate of Red and Red of Slate	Button Com	mon		
TR	Brown of Black	Trades Butte	on		
TR	Black of Brown	Trades Butte	on		
Not	e:				

Note:

The CC connection on the Controller to the Entrance Panel button common should always be a pair. I.e. Slate of Red and Red of Slate.

Controller to Entrance Panel Amplifier

0011	a oner to Emalaree i arier, ampin	.0.
Con	troller	1
1	Blue of White	2
2	White of Blue	+
+	Blue of Red and Red of Blue	-
_	White of Orange and Orange of	of White

Controller to Dual and Landing Entrance Panels

Controller

DMLBlack of Slate	DML
SBL Slate of Black	DML

Note:

- a) The above colour codes are based on a 15 Pair CW1308 Multi-pair cable.
- b) The main colour is the first colour stated above. The banding is the second colour stated above. Therefore, a wire stated as Black of Slate would be a Black main colour with a Slate banding.

Controllers to Telephone Handset

Contro	<u>Telepho</u>	<u>one</u>
1,C	Blue of White	1
2	White of Blue	2
6	White of Orange and Orange of White	6
9	White of Green	9
PS	Green of White	PS
PL	Brown of White	PL
DL	White of Brown	DL
Note:		

- a) The above colour codes are based on a 4 Pair CW1308 Multi-pair cable.
- b) The maximum length between the Controller and a Telephone should not exceed 50 metres.

Telephone to Strobe/Sounder

<u>Telephone</u>		Strobe/Sounder
6	Blue of White	Black
CA	White of Blue	+Red

Controller to Door Contact

Contro	<u>oller</u>	Door Contact
	Green of White	Switch Contact
DMS	White of Green	Switch Contact

Controller to Lock Release Monitor Contacts

Lock Release Monitoring Contacts

Controller

DMS	Green of White	Switch Contact
DMS	White of Green	Switch Contact

Note:

- a) The above colour codes are based on a 4 Pair CW1308 Multi-pair cable.
- b) If Door Contacts and Lock Release Monitoring Contacts are both to be used, then both switches must be wired in series back to the DMS terminals in the Controller.
- c) The main colour is the first colour stated above. The banding is the second colour stated above. Therefore, a wire stated as Black of Slate would be a Black main colour with a Slate banding.

System Wiring Colour Codes cont...

Controller to Lock Release (AC/DC)

Controller		Lock Release (Fail Safe DC)
LC)) SA)	1mm Twin Mains Type Cable	Lock Release Connection Lock Release Connection
Controller LC) SE)	1mm Twin Mains Type Cable	Lock Release (Fail Secure DC) Lock Release Connection Lock Release Connection
Controller		Request To Exit Button (Timed)
RTE T RTE T	White of Green Green of White	Switch Contact (Normally Open Contacts) Switch Contact (Normally Open Contacts)

Note:

- a) the above colour codes are based on a 4 Pair CW1308 Multi-pair cable.
- b) The main colour is the first colour stated above.

The banding is the second colour stated above.

Therefore, a wire stated as Black of Slate would be a Black main colour with a Slate banding.

Power Specification

Power	· Inpu	t

System Controller 230VAC
Main Controller/Local Power Supply 230VAC
Riser/Landing Controller 50VAC
Working Voltage 12VAC
Amplifier 6-12VDC

Controller Outputs

Lock Release (Fail Secure)

Lock Release (Fail Safe)

Auxiliary Supply

12VDC (Normally Open)(Rated 1Amp)

12VDC (Normally Closed)(Rated 1amp)

3 x 12VDC (Rated 3Amp overall)

Battery Back Up:

System & Riser Controllers
12V7Ah Sealed Lead Acid Battery
Main Controllers
12V17Ah Sealed Lead Acid Battery

System Controller Default Settings..

The following system functions are selected by using the FUNCTION and DATA dil switches located on the Controller motherboard below the Digital Trade clock.

Each of the above switches contains 8 ON and 8 OFF positions that can be selected in various combinations to achieve varying system functions.

Available Functions:

Description	<u>Default</u>
Default settings for all functions Setting line number for apartment Serial link set up Medium Volume Electronic Call Privacy Time Strobe	Set Set 1 - 16 OFF ON 8 Hours OFF
Entrance Door 1 (Adjustable Time Functions) Lock Release time Telephone Ringing time System active duration time Door Open Alarm delay time Door Open Alarm duration time	Default 10 Seconds 20 Seconds 30 Seconds OFF OFF
Entrance Door 2 (Adjustable Time Functions) Lock Release time Telephone Ringing time System active duration time Door Open Alarm delay time Door Open Alarm duration time	Default 10 Seconds 20 Seconds 30 Seconds OFF OFF

User telephone Instruction Leaflet. Type AT-PID

Once the Visitor has called you have the following options and indicators available to you:

Replace The Handset

You can replace the Handset without releasing the door.

To Release the Door

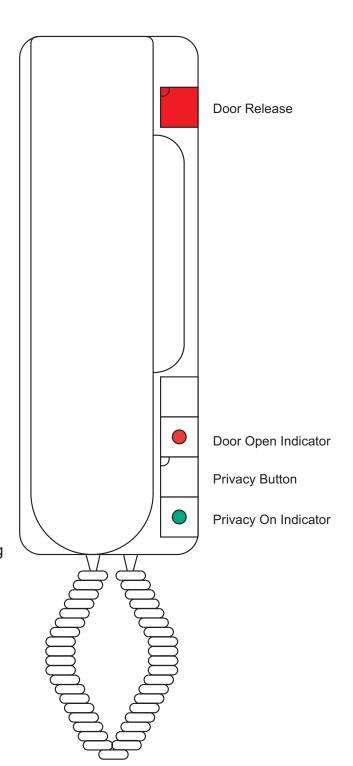
Press the **Door Release button**: this will cause the **RED Door Open** indicator to flash to confirm the door is being released for your visitor.

Door Open Warning

Once the Main Entrance door has been opened the **RED Door Open** indicator will stop flashing and will stay illuminated until the Entrance door is closed.

To Set Telephone Privacy

By pressing the **Privacy button** you will activate the system timer and illuminate the **GREEN Privacy On** indicator stopping all incoming calls for a timed period. You can, at any time if you wish, cancel the timed privacy period by pressing the **Privacy Button**. This cancellation will be confirmed by the extinguishing of the **GREEN Privacy On** indicator.



Select Manufacturing Limited Tel: 01206 855800 Fax: 01206 855801

Functional & Digital Audio Systems

Commissioning/Final Inspection Test Sheet.



Client Name: Site Address:				Commissioning Engineer:						
Oile Address.				I	nstaller	Name:				
Telephone No										
Controller No.	Call Tone.	John Dock Relega	Jr Open Ind	hacy Indi	ideo Pictur	Com	nment	S		
1										
2										
3										
4										
5										
6										
7										
9										
10										
11										
12										
13										
14										
15										
16										
Trades	Trades settings	On	Off	On	Off	On	Off	On	Off	
General Syste	m Comments	: Pleas	se use r	everse	Э		•			