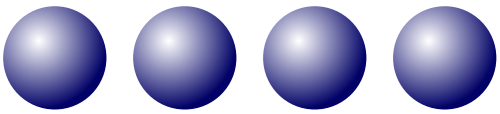
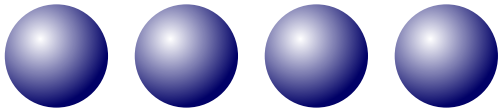


3400 Installation and User Instructions

Products Supplied and Distributed by

DOORENTRY EXPRESS+
suppliers and distributors of security and communications products



CONTENTS

Welcome to the 3400 range of systems. If you follow the advice in this manual carefully and adhere to our cable specifications and colour codes, you will have a trouble free installation.

Our unique feature of FPI (Full Peripheral Isolation) combined with a modular design and clear board layout means our systems are easily installed and maintained giving years of trouble free service.

As you work through this manual and install the system you will become familiar with our common-sense approach to all aspects of manufacture and installation procedures. Indeed this extends right through to our helpful and friendly Technical Support, After sa les and Planning Departments who will be happy to assist with any queries not covered by this manual. They are available during office hours by-

Tel: 020 8508 6700

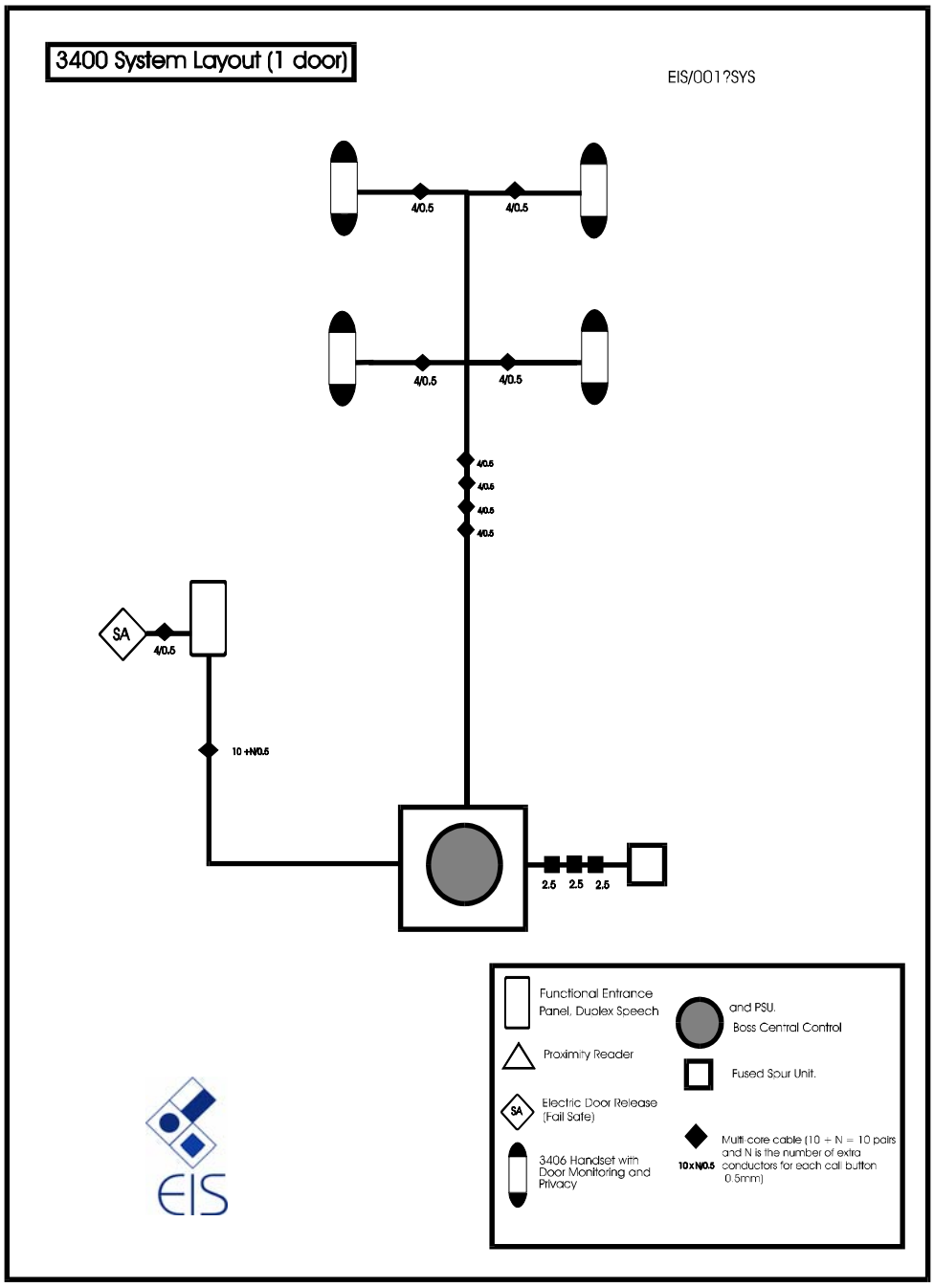
or

Fax: 020 8508 2666

This manual relates solely to the products of EIS. The specification and installation of third party products is the responsibility of the installation contractors. EIS will not be responsible for any damage or loss, whatsoever, arising from the incorrect installation or connection of third party products and advises that the appropriate product manuals are consulted at all times.

List of main features:

- **VANDAL RESISTANT ENTRANCE PANEL**
- **PRE ASSEMBLED IN SECURE, IP55 RATED, HOUSINGS**
- **MODULAR DESIGN WITH HIGH GRADE PLUG IN CONNECTORS**
- **DUPLEX SPEECH**
- **FULL PERIPHERAL ISOLATION (FPI)**
- **UNLIMITED TRADES TIME PERIODS**
- **DOOR MONITORING**
- **TIMED PRIVACY CONTROL**
- **MULTIPLE ENTRANCE CONTROL POSSIBLE**
- **COMPATIBLE WITH ALL TYPES OF LOCKING DEVICES AND ENTRY CARD SYSTEMS**
- **BATTERY BACKUP OPTION**
- **EMC TESTED**
- **YEAR 2000 COMPLIANT**
- **10 YEAR GUARANTEE**



Typical system layout:

Above is a typical system layout showing one entrance and four flats. The system can be ordered in four, eight or twelve way format as standard, expandable for larger systems at time of order.

Cable Requirements:

Set out below is the minimum cabling requirements for a standard 3400 system.

Handset - 4 Pair 0.5mm sq CW1308 telephone cable.

Lock Release - 4 Pair 0.5mm sq CW1308 telephone cable.

Entrance Panel - (10 pair + n) 0.5mm sq CW1308 telephone cable.

(**NB:** If PAC Controller being installed provide additional 10pair 0.5mm sq CW 1308 telephone cable, between the EP & PAC Controller)

It is worth paying particular attention to the calculation of the panel cable size which is determined on the basis of a ten pair plus one call wire for each dwelling on the system. Once this calculation has been performed use the next standard size cable up as in the nine way example below-

Formula :

Panel cable size = 10 pair + n (n = number of dwellings)

9 way example:

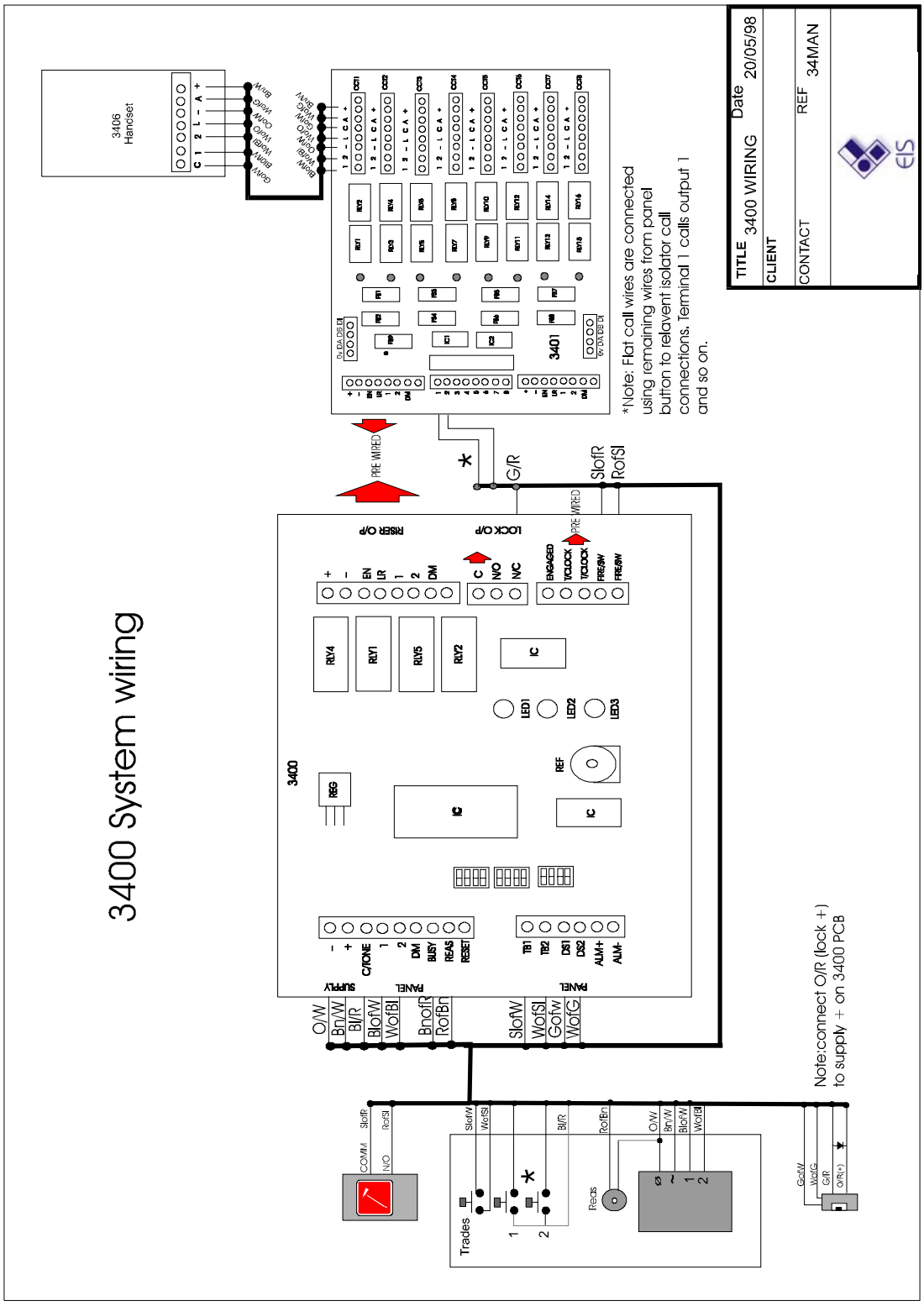
Panel cable size = 10 pair + 9 = 29 wires, therefore use 15 pair cable.

Connections and colour codes:

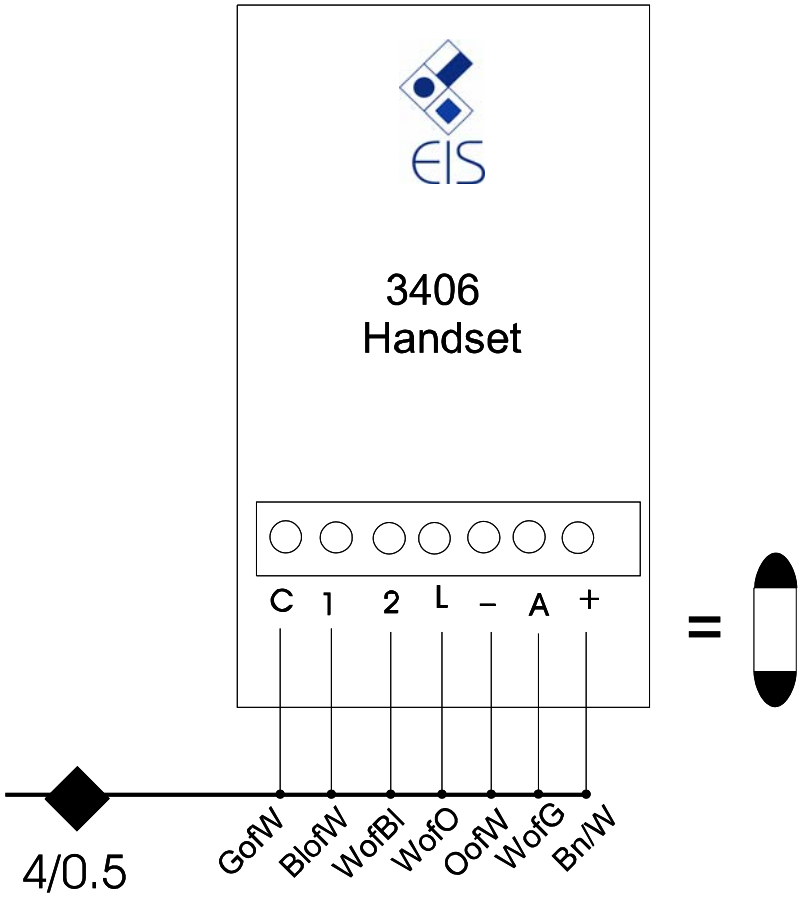
On the following pages you will find the diagrams and drawings containing the connections and colour codes needed to install and maintain the system.

Careful notice should be taken of the colour code when terminating the cables. The code makes use of the cable colour banding where the main colour is shown first followed by the band colour i.e Bl of W is the Blue wire with a White stripe and
W of Bl is the White wire with a Blue stripe. If you see Bl/W this means connect a pair of wires, in this case Bl of W & W of Bl, together.

Warning: Any damage resulting from the use of cables or connections other than specified in this manual will invalidate your warranty.


3400 System wiring
3406 Handset
3401
3400
*Note: Flat call wires are connected using remaining wires from panel button to relavent isolator call connections. Terminal 1 calls output 1 and so on.
PRE WIRED
G/R
SIofR
RIofSI
LOCK O/P
RISER O/P
Note:connect O/R (lock +) to supply + on 3400 PCB
Trades
Recds
TITLE 3400 WIRING
Date 20/05/98
CLIENT
CONTACT
REF 34MAN

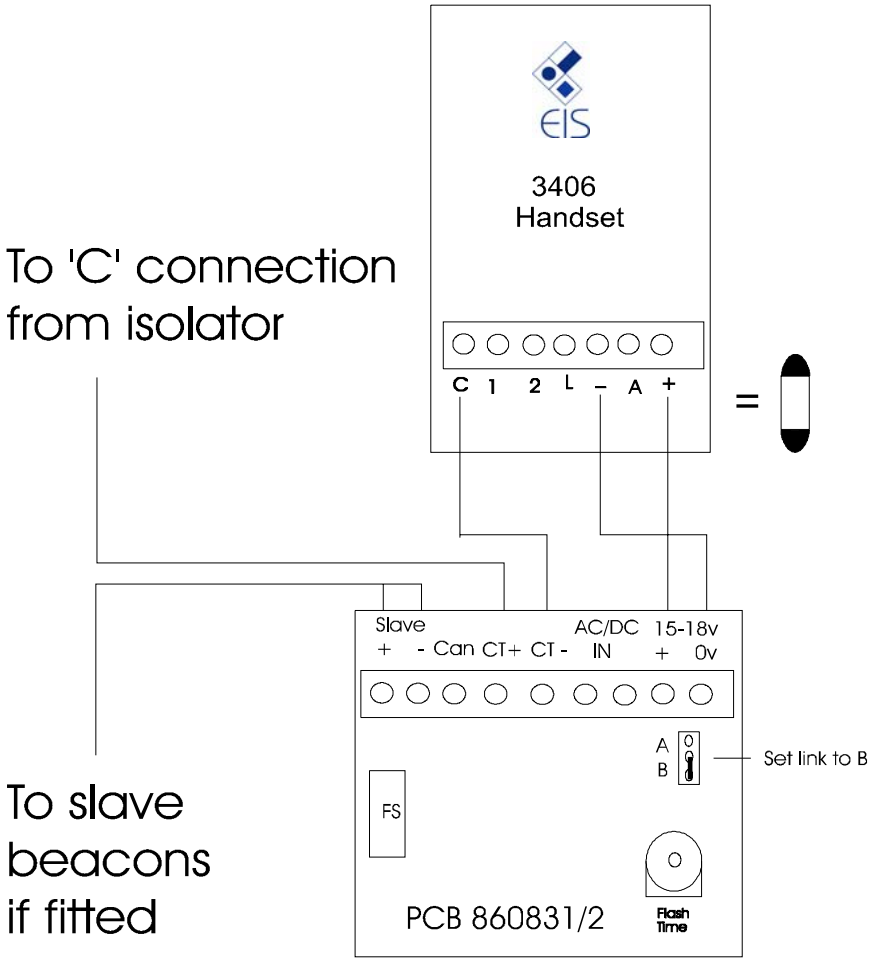
Connections for Ensign audio handset



Notes: First colour is the main colour, the second colour is the stripe.
Brown and White are used as a pair.

TITLE	H/SET	Date	30\4\98
CLIENT			
CONTACT		REF	3406

Connections for Ensign flashing beacon to audio handset



TITLE	FL BEACON	Date	30\4\98
CLIENT			
CONTACT		REF	860831

Settings and adjustments

The main adjustments are performed on the 3400 pcb located in the main equipment cabinet. Adjustments can be made to most system settings allowing your setup to be linked to site requirements.

There are also a number of Leds on this pcb which indicate system status.

‘Door’ Switches

Control the length of time a call is in progress and can be set to give varying time periods. If the door is released during a call the system will immediately reset ready for the next caller. While the call is in progress Led 1 is illuminated showing the system is active . The Led adjacent to the relevant isolator output is also illuminated confirming the correct h/set is being called.

‘Lock’ Switches

Control the length of time that the door is released. Led 2 is illuminated during the lock release period.

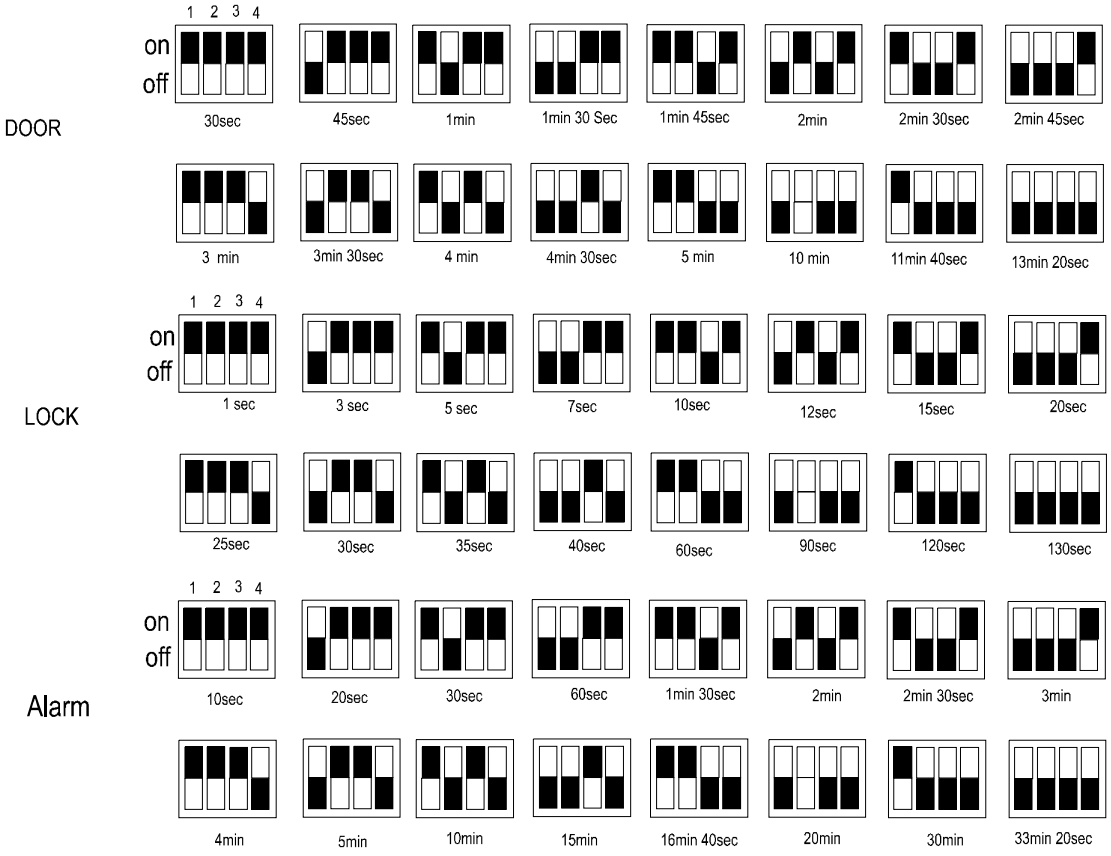
‘Alarm’ Switches

Control the length of delay time before the external door left open alarm sounds. Once this delay period has elapsed the Alm+ and Alm- terminals produce 12v DC which can be used to operate an external sounder also Led 3 illuminates. This feature is activated via the normal door monitoring connections DS1 and DS2. Immediately there is an open circuit on these terminals the Red Leds on the h\sets illuminate and the panel reassurance tone is heard (this can be disabled by removal of a link), if the door remains open the door alarm sounds (if connected) as detailed above.

The chart on the following page shows the duration for different switch settings. The switches themselves are shown in white.

Note - System must be powered down and up before changes will be registered.

Switch setting chart



Switches shown in white.

Speech Levels

The speech volume is adjusted via the pots on the panel amplifier which is located within the door panel. The pot marked INT adjusts volume to the flat and the one marked EXT adjusts the volume to the door. Care should be exercised when making these adjustments or 'feedback' will be experienced. The adjustment of speech levels should always be a balance between the needs of the visitors and the residents.

Trades Clock

Please read the instructions supplied for the particular clock supplied**.**

Firemans Switch

To use this facility connect a normally open switch across the 'Fire/Sw' terminals which, when closed, will give a lock release. For some installations, eg magna locks, you may need to run the lock positive directly through a normally closed switch instead.

If you are in any doubt then consult your local fire officer.

Testing the system

Before switching on the power all non-connected flat cables must be unplugged at the isolator. Switch on the power and check there is 12v at the supply terminals, if not switch off immediately and unplug the panel and isolator connections at the 3400 pcb. If when switched back on the supply is now good then check your connections are correct.

After establishing the correct voltage at the supply terminals you should go to a handset and check the privacy indicator illuminates when used. If it does not then check the isolator fuse, if all flats have no privacy then recheck voltage supply as above. Turn the privacy off and call the handset from the door panel adjust the speech levels and lock release time if necessary. When releasing the door check that the Red Led flashes with the door closed and remains steady with it open. Test all remaining handsets as above.

Note: If door monitoring contacts are not connected then DS1 & DS2 will need to be linked at the 3400PCB terminals to prevent permanently lit Red door open indicators at the handsets.

Operation of the 3406/7 handset

The handset is equipped with two buttons labelled ‘LOCK’ and ‘ON\OFF’ and with two Leds.

When called a tone will sound at the handset. When the handset is lifted two way speech is established to the door panel. If the caller is to be admitted one press of the ‘LOCK’ button will release the door for the set time and the Red Led on the handset will flash. If the door is not shut or is propped open the Red Led will be permanently on in all dwellings.

The ‘ON\OFF’ button operates the privacy function when it is pressed the Green Led will come on indicating that the handset is in privacy mode i.e. it will not receive any calls. The privacy mode can be switched off at any time by pressing the ‘ON\OFF’ button again it will also reset itself after a preset period.

DDA Enhancements

For those with hearing difficulties we can supply either an extension sounder or a flashing beacon. The beacon has adjustable flash time and can have extra ‘slave’ beacons added to it. Please state your requirement at time of order.

Parts Re-order List

PCB 3400	Panel Control PCB
PCB 3401	8 way isolator
PCB 3403	4 way isolator
HS 3406/7	Audio handset
AK 5251	Speech amplifier
PCB 860831	Flashing beacon
TC 100	Trades clock

EIS Limited
Automatic BST Time Clock

The EIS time clock has been designed to auto-change from summer to wintertime and back without the need to manually adjust the clock. The clock can be used in many applications, from door entry, access control, when the doors need to be opened at an exact time, to lighting controls and processing systems.

Technical details:

12VDC operation
2A 240AV or 30VDC changeover relay
Clock and program battery back-up
Multi program
Sunday cut-out
Manual programme reset

Programming Instructions:

The Time clock is factory set to GMT, you should not have to adjust the clock . However if you need to adjust the time carry out the following procedures:-

To set the clock

1) Press the **Reset** button for 3 seconds
2) Press the **Time and Date** button once, **Set up Time & Date** will be displayed for 3 seconds, followed by the **Time 12:00:00** display.
3) Press the **ALT** button to change the minutes, then press the **(NEXT)** button to move the cursor to the hours, follow the same procedure as minutes. Press the **(NEXT)** button and the **Date 29/11/02** will be displayed press the **ALT** button to change the day, press **(NEXT)** to move the cursor to the month, follow the same procedure as Day.
4) To change the year follow the same procedure, press **Time and Date** button again and **Day Fri** will appear, press ALT to change the day. Press **Time and Date** to start the clock.

Program Time clock

5) To change the program press the **Set-up button** once, **Set-up programs** will appear for three seconds, followed by **P1=ON 00:00** press **ALT** to change the minutes, then press the **(NEXT)** button to move the cursor to the hours, follow the same procedure as minutes. Press NEXT again and **P1=OFF 00:00** will appear Follow the same procedures to change the time. Press **(NEXT)** for additional program.
6) The DLC clock has a Sunday cut-off which stops the programs operating. This can be switched ON or OFF during the set-up procedure.
7) Press **(NEXT) Sunday Service *ON*** will appear . Press **ALT** to change to OFF or ON. press **(NEXT)** to start program .
8) At any time during the set–up procedures you can go back to the start by pressing the **Cancel.**
9) To operate the manual override press the **ALT key once , "M" will** appear next to **P1 ,P2** press **ALT** to switch manual override of

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