

**SelectLine HIGH RISE (digital)**

**CLIENT & OPERATIONAL SPECIFICATION**

Select Manufacturing Limited  
Unit H1 - The Seedbed Centre - Wyncolls Road  
Colchester - Essex - CO4 9HT  
Telephone: 01206 855800 – Facsimile: 01206 855801

**CLIENT SPECIFICATION**  
**FULLY ISOLATED DIGITAL CONTROLLED DOOR ENTRY SYSTEM**

**1.0 Digital Entrance Panel**

- 1.1 The Digital entrance panel facia shall be manufactured from a minimum of 3mm (12 gauge) BS316 Stainless Steel and have a straight grained finish.
- 1.2 The Digital entrance panel shall be front fixed (unless specified otherwise) with Triangular headed Vandal Resistant security screws.
- 1.3 The Digital entrance panel amplifier shall emit a tone to indicate system busy. The Entrance Panel shall also be fitted with an aperture incorporating a 6mm Lexan window showing **Door Open** (green), **Busy** (red), **Talk Now** (yellow) and **Flat Called** (Amber) LED's.
- 1.4 All Digital Entrance Panel push buttons shall be manufactured from Stainless Steel with a polycarbonate shell. They shall be individually fixed to the rear of the facia plate via welded studs; **secondary fixing plates are not acceptable**.  
If Sensor Touch buttons are specified the above standard still applies.
- The button face shall be a minimum of 20mm diameter, flush fitting with a **Yellow** ring for DDA requirements (If specified) and have an internal shoulder to prevent the ingress of moisture.
- 1.5 All Digital Entrance Panels are to be engraved 0 – 9, Call, Cancel and a "Trades" button (engraved as directed). The engraving shall be black deep filled enamel to size specified by the client. Also Braille, Yellow button rings and user instructions as directed to the DDA specification.
- 1.6 All Digital Entrance Panels shall have the following awareness tones and facilities:  
**Reassurance Tones**  
Lock Released assurance tone.  
Call reassurance tone.  
System busy tone.  
Door Open tone. (Switchable ON and OFF)  
Privacy engaged tone.  
**Facilities Programmed within the Digital Entrance Panel**  
Door Open alarm via distanced Strobe or Sounder.  
Up and Down Load buttons to transfer data from Primary to Secondary Panels on system programming.  
Request to Exit input.  
Fireman's/Override inputs (to Fire Brigade compliance).  
Adjustable Lock Release time.  
Adjustable Call Duration time.  
Adjustable Entrance Panel to Telephone ring time.  
Adjustable Door Alarm trigger and duration time.  
Two Access codes.  
System Polling function to confirm Controller (data) continuity.  
Video Output and Entrance Panel and Lobby Camera Input (Auto switching)
- 1.8 Where Digital Sensor Touch panels are specified the buttons shall be of Stainless Steel with no moving parts and shall be individually fitted to the facia plate.

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- 1.9 Where required the Digital entrance panel must be able to incorporate a proximity access reader and or a video camera? The access reader and camera shall be protected by 6mm Lexan and be fixed via individual studs welded to the rear of the fascia plate.

### **2.0 Entrance Panel Amplifier**

- 2.1 The amplifier shall be able to maintain clarity of speech over normal ambient conditions without experiencing distortion.
- 2.2 The amplifier volume controls must be bi-directional through an integrated circuit to give full control of speech on the system.

### **3.0 Telephone**

- 3.1 The telephone shall be constructed from ABS impact resistant plastic.

- 3.2 The telephone shall be manufactured with the following facilities:

Full Duplex speech.

A momentary button to set and cancel the Privacy period.

A green LED to indicate the Privacy switch is in the **ON** mode.

A red LED indicating Door status by flashing when the lock is released and then steady when the door is in the open position.

A momentary button to release the entrance door.

A momentary Concierge button (where specified).

### **4.0 Main and Riser/Landing Controller**

- 4.1 The Main and Riser/Landing Controllers shall have the following features and shall be capable of expanding from a Digital system to a Landing Door Control system without making changes to the main control equipment. The Landing Entrance Panels shall have no electronics within the Panel other than a standard manufactured amplifier.

Integral Battery back up.

Two Landing panels availability as standard.

Space for a 12V 7Ah battery in the Riser/Landing Controllers or 12V 17Ah battery in the Main Controller batteries must be sealed lead acid.

	<b><u>Time availability</u></b>	<b><u>Default</u></b>
<b><u>Individual</u></b> Landing door lock release time.	2 – 255 seconds	10 seconds
<b><u>Individual</u></b> Landing door call duration timer.	2 – 255 seconds	30 seconds
<b><u>Individual</u></b> Landing door telephone ring time.	2 – 255 seconds	30 seconds
<b><u>Individual</u></b> Landing door alarm delay time.	2 – 255 minutes	OFF
<b><u>Individual</u></b> Landing door alarm duration time.	2 – 255 minutes	OFF
<b><u>Individually</u></b> timed flat privacy times.	10 mins – 16 hours	8 hours

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Progressive Telephone ring Tone (for off hook protected calling)

Four Variable Calling Tones (Low, Medium, Nominal and High)

Digital trade clock (with secondary BST Trade Clock connections if required).

Full Electronic isolation against Line and Lock release short circuit.

3 x 12VDC Auxiliary outputs.

Discrete speech.

Discreet Lock Release (will only release when called and handset lifted).

Fireman's/Override inputs (to Fire Brigade compliance).

Outgoing Line/Flat identification space.

Internal electronic protection against multiple calling.

12VDC/AC lock outputs (12VAC Lock release is **not** maintained on battery standby).

Timed Request to Exit (RTE) inputs.

Proximity Access input. (PAC)

### **5.0 Cables (CW1308 Multi-pair)**

Audio and Low voltage cables shall be of approved type having a minimum of 0.5mm tinned copper conductors enclosed in a PVC sheath. (Suggested standard CW1308).

Depending on the size of the installation use 2.5mm – 4.0mm Low Voltage power cables and a standard 4 pair CW1308 between Riser Controllers.

It is also recommended that a 1.0mm Low Voltage power cable and 4 pair CW1308 is used between the Local Digital Entrance Panel and the Main Controller.

All Multi-pair cables shall carry a minimum of 10% spare conductors.

Cable colour code connections are to be to manufactures specification and drawings.

### **6.0 Batteries**

Controllers shall contain the manufactures specified sealed lead acid batteries that will operate the system for the specified time in the event of a power failure.

### **7.0 System Compliance**

The system suppliers shall be in full compliance with the protection requirements of the Council Directive 89/336/EEC on the approximation of the laws of the member states relating to electromagnetic compatibility when installed in strict accordance with manufacturers instructions.

## **8.0 Proximity Access System**

Each system and every specified entrance will be supported by a key (Token) access system manufactured by PAC International Limited. The system will be installed in compliance with the Manufactures recommendations. The reader unit should be installed to the lower section of the main entrance panel, with a suitable aperture cut into the panel and the reader placed behind a Lexan window.

The Control Unit shall be a PAC Controller and shall if required be linked via a PSTN/GSM modem. The system will be presented to the Client fully commissioned with all Tokens addressed, and listed on a permanent record sheet including all necessary instructions for the Client. It will also if required for the Contractor to provide training to the Clients staff in the use of the equipment.

## **SYSTEM SPECIFICATION & OPERATION**

### **FULLY ISOLATED DIGITAL CONTROLLED DOOR ENTRY SYSTEM**

#### **1.0 System Specification**

The system shall be designed to control up to 9,999 Lines (Flats) via 8 and 16 Line Riser/Landing Controllers.

The system shall be capable of controlling up to nine Digital entrance panels, which shall incorporate 0 – 9, Call and Cancel buttons plus a Trades button for Trades access controlled by a Digital time clock located within Main Controller.

A Lexan window with Busy and Enter LED's will be also incorporated into the Digital Panel facia.

Each ongoing Riser/Landing Controller may also have an integrated Trades clock for individual timing of further areas within the building if required.

All electronic line circuits shall be protected against short circuit with electronic isolation (**not fused**) so as to isolate an individual incident and not cause a general system fault.

Where a Multi-Digital panel entrance system is specified the system shall offer visual and audible notification of Busy and Enter at the Digital Entrance Panel. If a Landing control system is in operation the Landing functional entrance panels shall have visual and audible indication of Busy and Enter for that Landing and visual indication of Busy when a call from the Digital Entrance Panel is in progress.

The system shall contain circuitry to operate a Fireman's/Override switch. This switch can be incorporated in or above the entrance panel and must be compliant with Fire Brigade regulations.

All flat numbers must be clearly labelled at the terminal strip in the Main and Riser/Landing Controllers for ease of flat identification.

All Main and Riser/Landing Controllers shall contain a charger to maintain and recharge sealed lead acid batteries in readiness for main power failure where the batteries will run the system for a specified time ie. 4 hours. If a Landing system is in operation the Landing Controller shall be fitted with a battery to maintain individual landings in the event of a main power failure.

#### **2.0 System Operation**

To call a flat the visitor enters the number relating to the flat required and presses the Call button and awaits a reply. If a flat is incorrectly entered then press the Cancel button to cancel number called. When the Call button is pressed there will be a reassurance tone at the entrance panel confirming a flat is being called. The occupier will now have a ringing tone from their telephone handset which when picked up will cease and a two-way conversation can commence.

If the occupier wishes the visitor to enter they will press the lock release button on the telephone handset and the door release will be activated.

This operation will cause the red door-monitoring indicator to flash on all telephones, specific Landing panels and the Digital Entrance Panel indicating a door has been released. When an entrance or landing door is opened the red door-monitoring indicator will steady and remain so until the door open is closed.

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The visitor will hear an audible tone at the entrance panel and see a green flashing indicator in the entrance panel window indicating the door has been released and they can now enter.

The lock release period is adjustable from 2 – 255 seconds, but is set at 10 seconds as default.

The door-monitoring indicator is designed to alert all occupiers that a door is insecure and is not in the closed position. This is achieved by the Riser Controller monitoring the micro-switch contacts on a solenoid release, Electro-magnetic lock or a pair of door contacts in the top of the doorsill.

Linked to the door monitor contacts is an integral door alarm. When the entrance door is opened the door alarm delay timer is triggered (2 –255 minutes). Once the pre-set time is reached the door sounder will operate, again for a pre-set period (2 – 255 minutes) or will cease when the offending door is closed. The door alarm is set at OFF as default.

The Privacy switch and indicator on the telephone handset are designed to activate and indicate the status of the privacy function. The occupier can in the event of nuisance or requiring solitude can place himself or herself in privacy mode. This is achieved by pressing the Privacy switch. This will illuminate the Privacy indicator and instigate the set timed period. This period can be cancelled at any time by once again pressing the Privacy button.

It is important that each telephone handset has **an independent privacy timer** as this gives flexibility to the occupier's standard or special needs.

The privacy timers are set to a default of 8 hours but can, if required be easily changed via dil switches in the Controllers up to 16 hours.

If a visitor calls a dwelling that is in privacy mode the entrance panel will emit an unobtainable tone to indicate the occupier has set his privacy switch to the ON position. (This does not mean the flat is unoccupied).

With regard to the hard of hearing the system must be capable of adding a Strobe light without the need of extra wiring to the telephone/Monitor or auxiliary power supplies.

### **Proximity Access Readers.**

The Proximity Readers shall provide feedback to the user regarding successful or unsuccessful token reading by the system. The reader shall have an integral lamp. A steady green light will indicate that access has been granted. A steady red light will indicate that access has been denied. A flashing red lamp shall indicate that the user has made an error and should re-present their token. A reassurance tone shall sound at the door or reader to indicate the door is unlocked and the token holder can enter.

### **Proximity Access Controllers.**

The Proximity Access Controllers (and Modems where specified) shall be fitted in the riser cupboard or suitable position to give access at a later date by the client for Token adding/editing. The contractor shall also be responsible for linking a number of Proximity Access Controllers together and make a final link to a land line where specified by the Client

### **Token**

A specified number (Client to advise) of tokens Tenant, Masters and Sub masters will be supplied to the Client fully programmed and flat labelled ready for distribution.