# Functional Door Entry System

*ContractR*

Specification

***Planit Security Contracts Limited policy is one of continual improvement.***
***The company reserves the right at all times to amend***
***Specifications without prior notification***

## Technical Support

For all technical enquires relating to any information within this specification for the ContractR system and accessories,

Please telephone: **01268-548248**

Or fax your enquiry to us on: **01268-548257**

Alternatively Email your enquiry to us on: **info@planit-security.co.uk**

Please note: Enquires can only be dealt with during normal working hours.

**You may write to us at:**

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## System Overview

The functional door entry system shall be designed to accommodate up to fifteen dwellings with two entrances, using wall mounted telephone handsets.

The system shall operate with functional entrance panels, incorporating individual push buttons for each dwelling plus a separate trades button to give access to trades persons; access times being controlled via the universal system controller.

Where there is more than one entrance panel in use the universal system controller shall provide a visual indication that the system is busy via designated LED's located behind a lexon aperture.

To enable the emergency services to gain easy access, the functional door entry system shall incorporate the facility for an emergency switch, located above each panel.

All power supply outputs shall be protected against short circuits by roll over electronic circuits, which will disconnect the system until the fault is cleared; thereafter reinstating the normal supply voltages.

System isolation i.e, immunity to misuse shall incorporate roll over circuits to provide inter-subscriber isolation and subscriber to system isolation in-groups of four at a minimum.

In case of mains failure the system shall be maintained via standby batteries for a minimum of 4 hours.

To assist subscribers with hearing difficulties, timed strobe lamps, replacement inductive ear-pieces and extension buzzers can be fitted to the handset.

## System Operation

To call an occupier the visitor selects and depresses a designated push button on the entrance panel, causing an electronic call tone to sound within the apartment telephone handset called, whilst maintaining a reassurance tone at the panel. When the occupier lifts the handset two-way private, conversation can commence.

If two entrance panels are being employed this will cause the "busy" LED on the alternate panel to light until the transaction has completed.

If the occupier wishes to admit the visitor, upon operation of the door release switch on the telephone handset a red LED flashes, advising the occupier that the door is actually released, steadying when open and extinguishing when the door closes.

When the occupier wishes privacy the depressing of the privacy switch on the telephone will illuminate the green LED and stop all calls for the pre-set period extinguishing when the timer circuit switches off.

## 1.0 Entrance Panel

**1.1** The entrance panel fascia is to be manufactured from 3mm (12 Gauge) BS316 stainless steel plate with a straight grained finish. Entrance panels shall be front fixed with six triangular headed vandal resistant screws.

**a)** Where a dual entrance system is specified, the entrance panel fascia shall contain one red and green L.E.D., incorporated into a 6mm-lexon-window aperture. The red L.E.D. shall be designated '**SYSTEM BUSY**" and the green L.E.D. '**DOOR OPEN**". The lexon shall be of mar resistant grade and fixed in such a manner as to be highly resistant to impact

**b)** Where an entrance panel also contains a proximity access reader, the reader shall be protected by a 40 x 40mm x 3mm lexon covered aperture in the stainless steel fascia plate. The lexon shall be of mar resistant grade and fixed in such a manner as to be highly resistant to impact.

**1.2** The entrance panel back box shall be constructed from galvanized sheet steel having welded corners with six front and four rear fixing positions. To provide protection for the entrance panel fascia the back box shall incorporate a welded stainless steel mitered bezel. Back boxes shall be a minimum 70mm in depth.

**1.3** The push buttons within the entrance panel fascia are to be of stainless steel construction at a minimum size of 20mm. All buttons shall be round and flush fitted with an internal shoulder to prevent "knock through" as well as the ingress of any moisture. The push button contacts shall be of microswitch type sealed to IP67. The buttons must be individually fixed by studs welded directly to the stainless steel fascia; secondary fixing plates are not acceptable. There shall be one push button for each dwelling plus a trades button.

**1.4** All entrance panel engraving is to be highlighted by stove black enamel showing the flats, which each panel serves plus a button, marked as "TRADES" or "T".

## 2.0 Entrance Panel Location

**2.1** The bottom of the panel shall be 1350mm above FFL, final heights and location to be confirmed with the engineer prior fixing. The entrance panel location shall be carefully selected so as not to be subjected to the extremes of weather.

**2.2** The entrance panel location shall also take into consideration adverse ambient noise levels i.e. road and traffic conditions.

## 3.0 Microphone Amplifier Unit

**3.1** The amplifier unit shall operate efficiently over a wide frequency range with sufficient sensitivity to maintain speech clarity over normal ambient noise levels without distortion. Amplification shall be in both directions though an integrated circuit with separate controls for the adjustment of microphone and speaker levels.

**3.2** The amplifier shall be securely fixed behind a grill area in the panel fascia and shall be further protected by an offset slotted plate to restrict the entry of sharp objects. The amplifier shall be fixed via studs to the entrance panel fascia.

## 4.0 Electric Lock Release

**4.1** The lock release shall have an extended wrap around faceplate, which must be capable of withstanding a total loading of 1300kg, and still operate under a side pressure of 15kg. The lock release shall also contain a microswitch for door open monitoring. Each lock release shall be fixed by triangular vandal resistant screws.

**4.2** Also as a backup to the lock microswitch a set of changeover contacts shall be fitted in the top of the doorjamb and wired in series with the lock microswitch

## 5.0 Emergency Services Switch

**5.1** The emergency services switch fascia is to be manufactured from 3mm (12 Gauge) BS316 stainless steel plate with a straight grained finish. Emergency switches shall be front fixed with four triangular headed vandal resistant screws.

**5.2** The emergency services switch back box shall be constructed from galvanized sheet steel having welded corners with four front and four rear fixing positions. To provide protection for the emergency services switch fascia the back box shall incorporate a welded stainless steel mitered bezel. Back boxes shall be a minimum 70mm in depth.

**5.3** The emergency services switch shall only be activated by a special drop key, made to the emergency services specification.

**5.4** The emergency services switch is to contact rated at 28V DC 15A, with a temperature range of –55c to +85c. Cable connections are to be via screw and cup washers.

**5.5** All emergency services switch engraving is to be highlighted by stove red enamel with the text "**EMERGENCY SERVICES**" clearly displayed above the keyhole.

## 6.0 Emergency Services Switch Location

**6.1** The emergency services switch shall be fixed above the main entrance panel, **f**inal heights and location to be confirmed with the engineer prior to fixing. The emergency services switch location shall be carefully selected so as not to be subjected to the extremes of weather.

## 7.0 Universal System Controller

**7.1** Where more than one entrance panel or eight telephones is required, a 15 way two-entrance controller shall be fitted.

**7.2** The universal system controller shall be housed within a control box, which shall be IP rated to conform to the final installation location. The control box shall have space for a minimum of two 12 volt 6ah sealed lead acid batteries.

**7.3** The universal power supply shall be housed in the main control box with the system controller. The power supply shall be rated to enable the powering of the system under full load whist maintaining the standby batteries.

**7.4** The system controller shall include the following features;

a) Two entrance switching system (15 way only)
b) Variable timed lock release circuit
c) System busy circuit (15 way only)
d) Call isolation circuit (it shall not be possible to interconnect two dwellings by pressing two push buttons simultaneously)
e) System active timer
f) Digital trades clock with 3 on-off time settings and three months battery reserve
g) Power circuits electronically protected against short circuit
h) There shall be the facility to identify each terminal with the dwelling number it serves.
i) The terminal strips shall contain wire protection leaves and captive screws
j) Provide subscriber to subscriber speech isolation
k) Provide at a minimum in groups of four full system isolation
l) Incorporate discrete lock release circuit
m) Separate adjustment for system call and panel reassurance tones
n) Adjustable privacy timer with a range of 1 to 15 hours
o) The system shall provide a timed lock release after the activation of the request to exit or fireman switch
p) A 12v DC lock output @ 0.75 amps
q) A 12v DC auxiliary supply @ 0.5 amps

## 8.0 System Battery Backup

**8.1** The system shall use sealed lead acid batteries to provide the backup supply voltage in case of mains failure.

**8.2** The battery output shall be 12 volts DC and be calculated in amp/hr sufficient to maintain the system for a minimum period of four hours.

## 9.0 Apartment Telephones

**9.1** The telephone shall be constructed from A.B.S. impact resistant toughened plastic, and be suitable for wall mounting.

**9.2** The telephone shall also include the following features:

a) Full duplex speech

b) A switch to activate the privacy timer (privacy timer to be controlled by the universal system controller)

c) Privacy on/off indicator L.E.D. (green)

d) Door monitoring indicator L.E.D. (red).

## 10.0 System Cabling

**10.1** All low voltage (LV) cabling shall use BT CW1308 telephone multipair cable to the manufactures specification and drawings.

**10.2** All cables shall carry spare conductors above the actual number of conductors required.

**10.3** All cables shall be identified with cable markers clearly showing the purpose or dwelling it serves.

## 11.0 Installation And Commissioning

**11.1** The installer shall obtain from the manufacturers a full set of clear equipment connection diagrams, showing all cables and equipment connection diagrams.

**11.2** The commissioning and installation procedures shall be executed strictly in accordance with the manufacturers recommendations and current I.E.E Regulations.

## 12.0 Compliance

**12.1** The system supplied shall be in compliance with the protection requirements of council directive 89/336/EEC on the approximation of member states relating to electromagnetic compatibility when installed in strict accordance with the manufactures instructions.