

6th August 2013

**SPECIFICATION FOR THE SUPPLY & INSTALLATION
OF**

Windcrest AVCOM System & Evacuation System

AD1000EN-4R-REGU

ON BEHALF OF

THE UNIVERSITY OF READING

IN CONJUNCTION WITH

DUNBAR BOARDMAN

Evacuation System

The Lift Contractor shall provide a Windcrest two way communication and indicator system to allow the designated person to clearly and unambiguously identify where assistance is needed.

The system shall include an indicator system at the Final Exit Storey to show floors where assistance is required and shall be capable of hands free two-way speech.

Each level served shall incorporate a panel comprising a call button with acknowledgement illumination and means to allow two way hands free communication between the landing, the lift car and the Final Exit Storey. This shall be incorporated within a purpose made separate station.

Once the button is pressed on a landing, the indicator in the car and Final Exit Storey shall remain illuminated until reset by the responsible person. Should the landing button be repressed at a level prior to being reset, there shall be an audible warning and the indicator in the car and at the Final Exit Storey shall flash.

The whole system shall be enabled by the operation of the evacuation control at the Final Exit Storey.

The communication system shall have a self contained, maintained supply with 3-hour duration and a 12-hour recharge time using a trickle charger with nickel cadmium cells or equivalent.

Fire Recall Signal

Following a fire recall signal to the lift but prior to the activation of the Evacuation switch the landing emergency buttons and intercoms will be enabled. On pressing the landing alarm button the system will connect with the lift auto dialler system and allow two way hands free communication with the University 24hr security centre. Following activation of the Ground floor Evacuation control switch this facility will be cancelled and Evacuation operation enabled.

The system will also have volt free relay outputs selective to the designated floor where landing controls have been activated to allow for interface with the building fire alarm system to allow for muting of the fire alarm at the selected floor whilst the voice communication is active.

The Lift Contractor shall provide full details of his proposal with this offer.

2.7 Emergency Auto Dialling University of Reading Specification

An AVCOM Windcrest auto-dialling emergency communications system shall be provided in each lift car to the University 24hr security centre and will comply with EN81-28.

It shall include as a minimum:-

- a) A speaker unit mounted behind the car front panel which shall be suitably fitted. The unit shall be fitted with an integral steel baffle plate for protection against vandalism and a volume control which shall not be accessible from the lift car.
- b) A call/speaker which will allow communication to the other outstation on the installation must be mounted on the car top and in the pit.

- c) A main power pack and control unit mounted on the lift car roof and connected to the speaker by communications grade cabling.
- d) The auto-dialler shall be activated by the operation of the “alarm” push and will then automatically dial the first of a sequence of pre-programmed telephone numbers. When the operator answers, the system will allow two-way “hands-free” conversation and a pre programmed voice message shall identify the lift number and its precise location.

Announcement: - “Alarm LFT 31 Chemistry Block Security please press the star key after the tone and zero to complete the call”.

Additional Requirement:-

The speech announcement for the location should be heard by the call recipient and at the Lift Car Speaker.

This voice prompt shall continue at preset intervals until acknowledgement has been given. Two-way communication shall be possible throughout this period. If the call has not been acknowledged within an adjustable period of (Approx 30 seconds plus the time of the speech prompts), the call will terminate and move onto the next number in the sequence. Similarly, failure to connect with the first number will initiate dialling to the second pre-programmed number. This cycle of automatic dialling shall continue to all programmed numbers until acknowledgement of the call has been registered. When the call has been acknowledged the adjustable call duration of 2 minutes will be allowed. This period may be extended or the call terminated by following the advice of voice prompt messages.

- e) The auto-dialler must allow the security desk at the University to dial back into the lift as required to maintain contact with the trapped passenger.
- f) The following features will be incorporated:-
 - 220-240 volt mains supply
 - 4 hours battery back-up
 - 5 programmable numbers to 16 digits
 - programming by portable programmer
 - 3 second response delay
 - 1-9 minutes time out per conversation
 - System generated self-test of auto dialler, at least once every 1-3 days
 - BT approval
 - Voice enunciation of instruction, to minimise engraving.
- g) Provide an inductive loop system with sufficient field strength to be suitable for its purpose, along with suitable indication of its availability for hearing aid users.
- h) A Yellow and a Green illuminated pictogram to indicate the call/alarm registered and acknowledged respectively.
- i) Adjustable volume to ensure a sound level of between 35 and 65 dBA.

The Lift Contractor shall cover the cost of reprogramming the auto dialler system and/or changing the telephone numbers to suit the Client's requirements, if he is not awarded the Maintenance Contract at the completion of the defects liability period, or at any subsequent time.

Additional Requirement:-

Two sets of Voltage Free Inputs. Changing the status of the inputs will trigger the Central Station call.

The university specification and part number for the AVCOM System are as follows:

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