



Disabled Refuge Call Systems LOOP (CDC16)

Revision 6, 1st August 2007



- 'Full Duplex Speech' Multi way monitored voice link.
- Battery supported 24V DC power supply.
- Conventional telephone 'ring' tones.
- External visual and audible calling indication states – option

Dimensions: -	
CDC 16 Surface Radial	600mm (H) x 520mm (W) x 170mm (D)
CDC 16 Surface Loop	600mm (H) x 520mm (W) x 200mm (D)
	Please call for custom control panels.

The central is fitted with illuminated momentary push switches for each of the Refuge areas. When a call is requested the relevant indicator illuminates and the phone rings to attract the attention of an incoming call. The master handset is lifted and the illuminated switch pressed, thereby connecting the slave phone/hands free to the master. A normal duplex (phone) or semi duplex (loudspeaker) conversation can then take place. Replacing the handset cancels the call. Multiple calls are logged onto the control panel and taken at the discretion of the master. Up to 4 refuge telephone areas can be spoken to at the same time, but only one hands free unit.

The system provides a simple means of connecting two locations with an independent telephone link, continuously monitored when not in use, and utilising a battery supported power supply, to allow compliance with the relevant sections of BS5839.

In the simplest configuration, each handset automatically calls the other when lifted. Lifting the second handset and pressing the corresponding zone button will allow a normal **FULL DUPLEX** telephone conversation to take place.

Replacing both handsets resets the system.

Alternative configurations permit the inclusion of additional visual call status indicators, to allow both audible and visual 'calling' signals to be generated, with a further facility for 'call registered' indicators to be provided if required.

In a quiescent state, the system is monitored for power supply failure and line damage, in addition to handset removal. A volt free changeover contact is provided for remote fault reporting.

In the simplest configuration, a 4 core + screen fire rated cable is wired from each loop node remote and daisy chained to the next. A short circuit loop node can be added to the system loop to give greater system redundancy in a fault condition.

Mains and batteries are contained in the central unit.



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The central station can be flushed if required. This is achieved by using the flushing bezel. It is simple to use and secured to the standard surface mounting back box supplied with all systems. Six fixing screws secure the bezel in place to the surface box. The stainless control panel is then secured via the four corner fixings as per usual.

Dimensions: -	
Flushing flange	432mm (H) x 452mm (W) x 10mm (D)
Back box behind flange	392mm (H) x 412mm (W) x 100mm (D)

The following remote units are available: -



A remote telephone handset outstation can be supplied. This can be provided in both surface and flush mounting (surface unit shown). This unit is finished in a green leatherette (BS4800 14E53) paint with a polycarbonate front label and houses a grey handset. Operationally this unit is identical to our Fire Telephone range. By simply lifting the remote handset a call is made automatically to the central control panel. A duplex configuration similar to standard telephone will be initiated. These units can be surface or flush mounted (surface shown). The front face of the surface enclosure has a sloped frame (see dimensions below).

Dimensions: -	
Surface	332mm (H) x 182mm (W) x 96mm (D Top), 81mm (D Bottom)
Flush	372mm (H) x 232mm (W) x 1.5mm (D)
Back box behind flange	332mm (H) x 182mm (W) x 77mm (D)

A hands free loud speaking version can be supplied as an alternative in stainless steel. Both flush and surface mounting units can be supplied. The surface unit has a black leatherette (RAL9001) mild steel back box. A call is made by pressing the large momentary push button. This will illuminate the panel mounted 'call registered' led, and initiate a conventional telephone call tone from the panel loudspeaker.

Dimensions: -	
Surface back box	290mm (H) x 217mm (W) x 50mm (D)
Flush back box	230mm (H) x 155mm (W) x 55mm (D)
Stainless panel	260mm (H) x 185mm (W) x 3mm (D)



For those outdoors areas, a weatherproof option is also available. Enclosure is IP65 rated and a cream RAL7032 in colour. Units are supplied with door handle and lock. Handsets can also be supplied using the same enclosure. This item cannot be supplied with a flushing kit.

Dimensions: -	
Surface box	300mm (H) x 200mm (W) x 150mm (D)

Typical schematic for a loop wired 16 line Disabled Refuge Call system

