



Features

- Point-to-point two way fault monitored voice link
- Battery supported 24V DC power supply
- Conventional telephone 'ring' tones
- Visual and audible calling indication states
- Versions available for up to 16, 32, 48, 64 call outstations with individual call status indications
- Custom versions available
- Choice of outstations
- Outstation cabling may be loop, radial or combination
- Compliant with BS5839: part 9: Code of practice for emergency voice communication systems

Description

A specialised intercom system that is built and installed to a high standard, having a back-up emergency battery supply and is constantly self-monitoring for faults upon the system.

The master panel is normally located at the main entrance of a building for use primarily by the fire officer and the outstations strategically placed around the building for use by fire marshals or fire brigade personnel. Using the protected communication link, personnel can assess the emergency situation and implement the appropriate action. This is particularly desirable in high-rise buildings where an evacuation needs to be coordinated to prevent stairwells becoming overwhelmed.

The Fire Telephone is very similar to the Refuge Call and both systems may be combined into one custom built system. Both systems should be designed, manufactured, installed and maintained to BS5839 part 9 "Emergency Voice Communication Systems".

Operation is extremely simple. Calls from an outstation are initiated by lifting the handset. This will cause the corresponding LED on the master control to illuminate and the telephone to ring. Lifting the telephone handset and pressing the illuminated LED will allow normal duplex (telephone) conversation to take place. Multiple calls are logged onto the control panel and taken at the discretion of the master. Calls by the master can be initiated by lifting the handset and pressing the corresponding button. The system is reset when handsets are replaced.

The Fire Telephone is available in different versions for up to 16, 32, 48 or 64 outstations as standard, larger custom versions are available upon request. For maximum flexibility, the master control panel may be stand-alone or combined with the central exchange, to suit individual installations with regard to cabling requirements and equipment housing sizes.

Cabling from the central exchange to outstations should be in fire-resistant cabling and may be radial (2-core + earth) or, with the inclusion of loop node for each outstation, a loop highway may be set up (4-core + screen) for up to 30 outstations on each loop (not exceeding control panel maximum). It is possible to combine loop and radial cabling to devices on one panel. A loop node is available that provides short-circuit protection to protect loop integrity between each outstation or fire zone.

Central exchanges are required to be equipped with line cards which provide connection and control for 4 outstations, being loop connected or radial. (4 line cards required for 16 location refuge call). Because systems larger than 16 are built using additional control boards, when used in loop mode each control board will require its own unique address, therefore outstation capacity will reduce by one per control board. Therefore maximum outstation capacity for loop systems is: 16, 30, 46, 60 and custom made.



Fire Telephone System

Fire Telephone - flush mount

Flush mount version of the fire telephone outstation. This unit is finished in a red leatherette (BS4800 14E53) paint with a polycarbonate front label and houses a red handset. Operationally this unit is identical to our Disabled Refuge range. By simply lifting the remote handset a call is made automatically to the central control panel.



Fire Telephone - surface mount

Surface mount version of the fire telephone outstation. This unit is finished in a red leatherette (BS4800 14E53) paint with a polycarbonate front label and houses a red handset. Operationally this unit is identical to our Disabled Refuge range. By simply lifting the remote handset a call is made automatically to the central control panel.



Fire Telephone / Disabled Refuge

A combined fire telephone and disabled refuge remote outstation can be supplied as an alternative to having two systems. Both flush and surface mounting units can be supplied. The surface unit has a white leatherette (RAL9001) mild steel back box. A call is made by simply lifting the remote handset (Grey). This will illuminate the switch on the master control panel as a conventional fire telephone call.



Outstation loop node

If outstations are required to be connected to a loop highway, then connection must be made via a loop node for each outstation. Two versions are available, a standard node which may be fitted into the same enclosure as the outstation, or a node which offers short circuit protection which is a separate unit. The 4-core data highway connects to the node via in/out terminals, connection between node and outstation is made via 2-core cable. This allows the node to be located in a convenient position such as a riser or electrical cupboard, negating the need to run the loop highway to each outstation's final position.





Fire Telephone System

Communications

Part No	Description	Height (mm)	Width (mm)	Depth (mm)
Fire Telephone - Up to 16, 32, 48, 64 Outstations				
COM0313N	Central exchange cabinet 16 outstations	600	520	150
COM0314N	Central exchange cabinet 32 outstations (30 in loop mode)	600	520	150
COM0315N	Central exchange cabinet 48 outstations (46 in loop mode)	1000	800	250
COM0316N	Central exchange cabinet 64 outstations (60 in loop mode)	1000	800	250
COM0342N	Master control panel 16 indications	600	520	150
COM0343N	Master control panel 32 indications	600	520	150
COM0344N	Master control panel 48 indications	800	520	150
COM0345N	Master control panel 64 indications	800	520	150
COM0346N	Combined central exchange & master control 16	600	520	150
COM0347N	Combined central exchange & master control 32 (30 in loop mode)	600	520	150
COM0348N	Combined central exchange & master control 48 (46 in loop mode)	1000	800	250
COM0352N	Combined central exchange & master control 64 (60 in loop mode)	1000	800	250
COM0321N	Line Card - 1 required per 4 outstations - radial or loop cabled	-	-	-
COM0322N	Flush mounting bezel for combined 16 & 32	650	570	2
COM0336N	Flush mounting bezel for master control panel 16 & 32	650	570	2
COM0337N	Flush mounting bezel for master control panel 48 & 64	850	570	2
Outstations				
COM0338N	Loop node (required for each outstation on loop - not required for radial) <i>This node only may be fitted into outstation upon request</i>	230	155	50
COM0339N	Loop node with short circuit protection (not required for radial connection)	230	155	50
COM0300N	Red fire telephone mounted in red enclosure - surface mount	332	182	96 - 81
COM0302N	Red fire telephone mounted in red enclosure - flush mount	372	232	1.5 + 77
COM0305N	Combined fire telephone / Refuge telephone in white enclosure - surface	230	155	50
COM0353N	Combined fire telephone / Refuge telephone in white enclosure - flush	332	182	1.5 + 77
COM0306N	Weatherproof IP65 enclosure	300	200	150

Panels and outstations can be made to customer's specification, including bespoke finishes and artwork

Loop Highway cable recommendations, 4-core + screen fire rated cable

Cable core size	8 outstations	16 outstations	24 outstations	30 outstations
1.5mm	3200 Metres	1600 Metres	1200 Metres	1000 Metres
2.5mm	3900 Metres	2550 Metres	1900 Metres	1275 Metres
Extra PSU	3900 Metres	3900 Metres	3900 Metres	2100 Metres

PEL Services Ltd - Belvue Business Centre - Belvue Road - Northolt - Middlesex - UB5 5QQ
 Tel 020 8839 2100 - Fax 020 8841 1948 - www.pel.co.uk - sales@pel.co.uk