

SigTEL EMERGENCY VOICE COMMUNICATION SYSTEM

Disabled refuge, fire telephone & stadium marshal applications

For most people, a simple instruction like "please leave the building by the nearest available exit" can be acted upon quickly and easily. But for wheelchair users, the disabled and infirm, this isn't always the case.

Current Building Regulations recognise this and insist that all new non-domestic buildings with more than one storey provide 'refuge' areas – relatively safe places where people who cannot easily use fire escapes and evacuation lifts can call for assistance and wait until help arrives.

Simple, effective two-way communication in these areas is essential, firstly to assist rescue teams in determining where assistance is required and secondly to reassure people help is on the way.

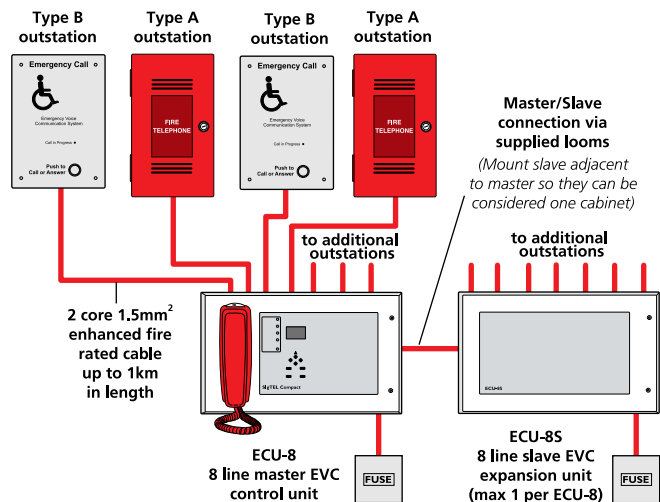
Communication systems in refuge areas are known as Emergency Voice Communication (EVC) Systems. Their design and installation is governed by BS 5839 part 9 and the recently expanded SigTEL system is now suitable for use in all types of EVC application – be it a disabled refuge, fire telephone or stadium marshal system.

Not only is the system incredibly easy to use, it is hugely cost-effective in comparison to others on the market.



- Meets and exceeds the requirements of BS 5839 part 9
- Ideal for all disabled refuge, fire telephone and stadium marshal applications
- New Compact 1-8 line (expandable to 16) wall-mounting central control unit (above centre) saves valuable desk and floor space in crowded control rooms
- New Type B stainless steel 'Disabled Refuge' outstations (above right) offer true duplex hands-free speech - flush, surface and weatherproof versions are available
- Type A 'Fire Telephone' outstations (above left) come in locking or non-locking red steel cabinets and offer true duplex speech - semi-flush, surface and weatherproof versions are available.
- 16-128 line wall/desk mounting central control equipment also available for larger systems
- Unique 'auto-learn' facility allows fast network set up
- All extensions can be named with user-defined text of up to 15 characters
- Fully monitored hardware and software
- System operates at 24 VDC. In the event of mains failure, operation can be maintained for 24 hours (standby) and 3 hours (in use) using 2 x 12V 7 Ahr batteries
- Optional line tester allows cable faults to be checked prior to equipment connection
- Ideal for hotels, shopping malls, office blocks, transport terminals, banks, sports stadia, entertainment complexes, auditoria, etc.

A typical SigTEL Compact (1-16 line) EVC System



A typical 16-128 line SigTEL EVC system schematic can be found overleaf.



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SP203 APPROVED

About the SigTEL Emergency Voice Communication System

SigTEL comprises two different types of central control equipment - a new low-cost all-in-one wall-mounting compact version which can handle up to 8 lines (expandable to 16) and a 16-128 line modular wall/desk mounting version.

Both are typically located in a building's control room (or on smaller applications at a fire access point) where they allow management and/or the fire services to communicate via a telephone-style handset with the system's 'outstations'. Two types of SigTEL outstation are available - Type A (fire telephone-style) and Type B (handsfree intercom-style). Both types of outstation connect to SigTEL's central control equipment using two cores of 1.5mm² enhanced fire rated cable of up to 1km in length.

Key system components

Compact 1-16 Line Central Control Equipment

Usually located in a building's control room or fire access point, our new **ECU-8 8 Line Master EVC Control Unit** is supplied complete with line cards, a handset and a backlit liquid crystal display. It allows the operator to communicate with up to eight Type A or Type B outstations (any mix). An eight line expansion unit (the **ECU-8S 8 Line Slave EVC Expansion Unit**) is also available to increase the system's outstation/line capacity to 16. Both units are designed to be wall-mounted.



Modular 16-128 Line Central Control Equipment

Our modular 16-128 line control equipment comprises one **CCU-16 16 line Master Control Unit** and up to seven **SCU-16 16 line Slave Expansion Units**. Line cards are not included but can be purchased separately. For every two Type A outstations connected, an **LC2 2-Way Line Card** is required and for every two Type B outstations, an **LC3 2-Way Line Card** is required. A separate ECU Desk Control Unit is also required to allow operators to communicate with the system's outstations. Three versions are available, the **ECU-32**, which can control up to 32 lines; the **ECU-64** (up to 64 lines); and the **ECU-128** (up to 128 lines).



Type A 'Fire Telephone' Outstations

Fire telephone and stadium marshal systems use 'Type A' telephone-style outstations. SigTEL's **THS1-E Type A Outstations** comprise a telephone handset in a lockable red steel cabinet (right). They are typically located at entrances and fire-fighting lobbies to allow fire marshals to communicate with building control during an emergency. Their housings have openings which allow the phones to be heard and they are designed to be surface or semi-flush mounted using the **T-BEZ Bezel**. A Type A outstation with a non-locking handle (the **THS1-EH**) is also available.



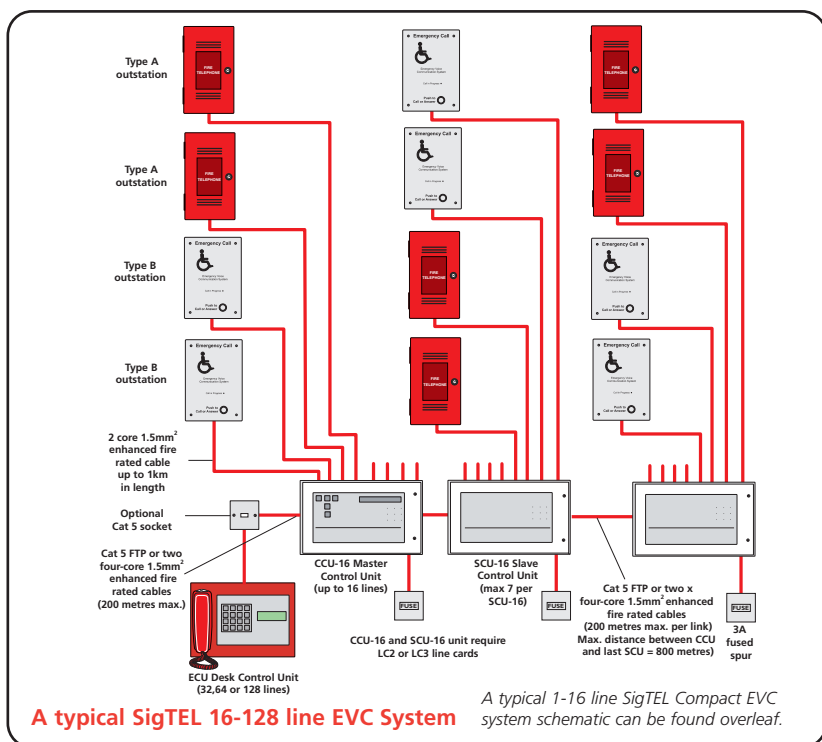
Type B 'Disabled Refuge' Outstations

Disabled refuge systems use 'Type B' handsfree intercom-style outstations. SigTEL's new **EVC302 Type B outstations** (right) offer true hands-free duplex speech and allow anyone in a refuge area to communicate with building control at the touch of a button and vice versa. Attractively finished in brushed stainless steel, they include connections for an optional induction loop system for the hard of hearing and a general purpose output that closes on activation of the unit for the optional connection of strobes, CCTV activation relays, etc. Flush (**EVC302F**) and surface (**EVC302S**) versions are available together with an optional weatherproof enclosure.



FiTT Line Tester

Allows cable faults to be checked and cleared prior to equipment connection, greatly simplifying system commissioning.



SigTEL Compact 1-16 Line Dial/Control Units

- ECU-8 8 Line Master EVC control unit (needs BC286/2 batteries)
- ECU-8S 8 Line Slave EVC expansion unit (max. 1 per ECU-8)
- AFP385 Grey flush bezel for ECU-8 or ECU-8S

SigTEL 16-128 Line Control & Dial Units

- CCU-16 16 line master EVC control unit (needs BC286/2 batteries) (Requires ECU desk dial unit and LC2/LC3 line cards)
- SCU-16 16 line slave EVC expansion unit (max. 7 per CCU-16)
- LC2 2-way line card for Type A Outstations
- LC3 2-way line card for Type B Outstations
- SVMM Two message card for CCU (optional)
- SVMM/C Custom message card for CCU (optional)
- AFP385 Grey flush bezel for CCU-16 or SCU-16
- ECU-32 32 line Desk control unit with handset and display
- ECU-64 64 line Desk control unit with handset and display
- ECU-128 128 line Desk control unit with handset and display
- ECUWMB Wall Mount Bracket for ECU-32, ECU-64, ECU-128

Type A Fire Telephone Outstations

- THS1-E/MK4 Fire telephone EVC outstation, c/w handset & key
- THS1-ET/MK4 Fire telephone EVC outstation, c/w handset & T-Bar
- T-BEZ Red flush bezel for THS1-E/MK4 and THS1-ET/MK4
- THS/MK4 Red desk mounted telephone ONLY

Type B Disabled Refuge Outstations

- EVC302F Handsfree EVC outstation, stainless steel, flush
- EVC302S Handsfree EVC outstation, stainless steel, surface
- BF359/1 Weatherproof enclosure for EVC302F/S

Accessories

- FiTT EVC line tester
- CatCON Adaptor box to convert fire-rated cable to Cat 5
- XSB Blue xenon strobe, 12V
- XSA Amber xenon strobe, 12V
- SDM Strobe driver module, 12V
- BC286/2 24V Volt 7.2 Ahr SLA battery (2 x 12V incl. link wire)