



VOICE ALARM BRITISH STANDARDS

VIGIL 2

VIGIL2 has been designed and built to meet relevant British Standards. One of these is BS5839-8:2008: Fire detection and fire alarm systems for buildings - code of practice for the design, installation, commissioning and maintenance of voice alarm systems. Below are some disciplines we would like to point out to you:

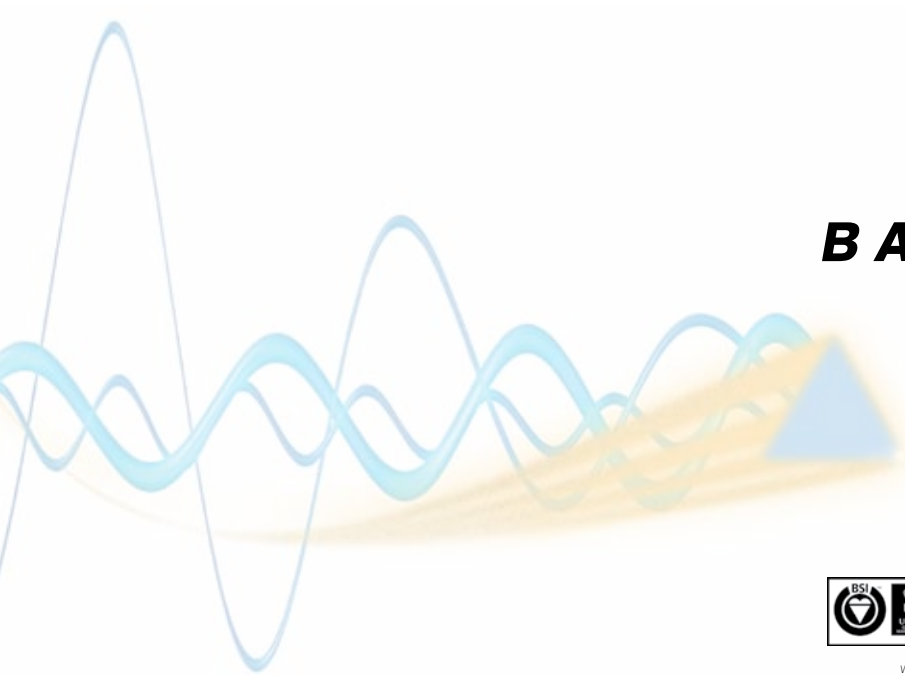
FEATURES:

- At least two interleaved loudspeaker circuits are required in a building. If the building contains an open area greater than 4,000m² OR if the building is designed to accommodate more than 500 members of the public, dual circuits should be used. This achieves suitable coverage should one of the circuits become short or open circuit.
- Cabling for dual circuits must not be contained in one single sheath.
- Where a processor-controlled system is used the following points must be followed:
 - Any system configuration data should have restricted access.
 - Do not use rotary discs (ie computer hard disc) or any other media moving parts.
 - Any processor must be monitored eg 'watchdog'.
 - The network between sub-systems must be monitored in accordance with requirements (12.1)
- The monitoring of the system should include the following:
 - Normal power.
 - Standby power.
 - Battery chargers.
 - Fuses and protective devices.
 - Critical signal paths (see 'definition').
 - Emergency messages.
 - Loudspeaker circuits.
 - Standby amplifiers.
 - Select wires on a multi-zone emergency microphone.
 - All links between a decentralised system.
- Detection of missing modules or amplifiers within the critical signal path.
- Automatic level controllers must be monitored and should failsafe to a pre-determined level, not mute.
- The system should latch the input condition from the fire panel ensuring that if a link is broken the alarm broadcast continues. Reset is achieved by a separate signal from the fire panel.
- After reset the system should be capable of producing a general evacuate broadcast within 30 seconds.
- The fire alarm interface and VACIE must be separated by no greater than 10m, unless duplicate circuits are employed.
- Any fault should be indicated or announced within 100 seconds.
- Reserve amplifiers, if used, must be kept powered up and continuously monitored.
- Standby battery supplies to have capacity for 24 hours quiescent operation followed by 30 minutes all zones evacuate alarm message broadcast.
- 120 minute enhanced fire resisting cables to be used in unsprinklered buildings having a phased evacuation, or buildings over 30m high or where the risk assessment demands.

Definition of 'critical signal paths':

- All components and interconnections between every fire alarm broadcast initiation point and the input terminals on, or within, each loudspeaker enclosure.

NB: This leaflet is a brief summary and our interpretation. Please refer to the official BS5839-8:2008 document for full details.



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