



Features

- Distributing of public address broadcasts
- Open channel communication
- Indoor, outdoor, ATEX stations
- cost effective S/UTP cabling

Integrated PAGA and Page Party Communication System

Description

The BARTEC VODEC integrated PAGA and Page/Party system offers simple to use functionality utilising open channel handset communications and loudspeaker broadcast paging capability, integrated into a simple and easy to use package.

This System enhances the user friendliness of traditional systems by the introduction of "Single Button Paging" – allowing telephone sub-system paging broadcasts over the PA system to be initiated via one pushbutton. This is in addition to fully selective "point to point" two way voice communication realised via modern PABX switching technology.

This System has no special cable requirements (operates over two non-critical cable pairs with overall shield) enabling multiple simultaneous private conversations, trunk line expandability to other PABX central switches or Public Address

live voice, alarm broadcast and open channel "Page" communications.

Amplification is mounted centrally, giving the benefit of unlimited power capacity with no restrictions relating to the number of outstations whilst offering simple and convenient servicing.

A system consists of sub-subscriber outstations, the system range includes:

- Indoor desk/wall mount handset suitable for control rooms, offices, switch rooms.
- Weather proof/bulkhead mount handset suitable for exposed locations, machinery rooms, process areas.
- Explosion proof/bulkhead mount handset suitable for sitting in all zone 1 IIC explosive locations (ATEX and NEC505 certified).

VX/AT System basic operation

VAP30 access panel



The operator can initiate live voice routine announcements to a menu of independently addressable paging zones by depressing the required zones of address and selecting the push to talk key.

- Paging chime initiation automatically precedes voice broadcasts
- Emergency speech is distributed to all zones on a priority basis upon preselection of the "important message" key

VAP01 Access Panel



- The user selects emergency speech button and live voice access is granted on a priority basis to all zones of address (Routine access is pre-assigned to zone 2 to 4 under one routine push to talk button action)
- Evacuate alarm is initiated to all areas by momentary depression of a dedicated button

Central equipment core

VXS



VXS Allows connection for up to sixteen telephone stations and is expandable to 1024 subscribers in sixteen channel increments by specifying additional VX switches as required.

The VXS switch can be stand alone with all (sub)systems connected or integrated into a BARTEC VODEC PAGA public address and alarm system to form a complete supervised paging and alarm broadcast package.

The PABX facility enables regular telephone communications with all subscribers and operation is identical to a standard telephone system.

Ports

VX switches are designed to plug in/out of the host equipment cubical to facilitate service, it is impractical to terminate plug/socket connectors directly to field cables hence an interposing termination field is required.

VXS is connected to subscribers and PABX switch via termination "break out" ports that convert insulation displacement ribbon cables (IDC) to conventional screw terminals suitable for connection of, for example, standard ship/offshore cable conductors.

VX/AT Public Address and General Alarm



VX/AT carries the following facilities:

Up to two master access panel positions type VAP30 can be connected allowing the operator to discretely

address up to four independent paging zones, initiate and cancel alarm tone signals manually, attenuate control facility (to reduce alarm tone loudspeaker sound pressure to a pre set level), select emergency priority paging and also determine overall paging system status.

Up to two emergency/routine "group call" voice access units type VAP01 provide emergency voice access, routine paging (on a low priority basis) and initiation of evacuate/abandon alarm tone.

Eight alarm tones are incorporated preassignable IMO and PFEER (i.e. four tones in each selection group). Alarms are each automatically initiated from volt free dry contacts, in addition to manual initiation of alarm 1 to 3 from VAP30 and alarm 1 from the VAP01.

VX/AT incorporates reliable and sophisticated signal processing to assure the highest possible intelligibility of paging speech. VX/AT carries a menu of preannouncement signals (to alert listeners to a voice-paging broadcast) and also incorporates a comprehensive automatic supervisory to provide the operator with an early warning of voice/alarm system deterioration.

VX/AT drives integral front panel status display which provides rapid maintenance and facilitate service. The unit is fitted with interface ports as standard to allow connection to other site systems including, fire and gas detection package, entertainment system, SCADA and event recording facility.

External systems

■ Fire and Gas panel

The Fire and Gas panel can automatically initiate alarm tone menu by interposing volt free relay contact interface. Alarms are issued to all zones, cadence and frequency comply with IMO/NORSOK/PFEER rules.

■ Entertainment system

Volt free muting contact to disable the entertainment package(s) during broadcast of alarms and emergency speech.

■ Event recording

A Volt free recorder start stop contact plus 0 dBm audio line to enable recording of all voice and alarm traffic for possible incident investigation.

■ Supervisory

The VX/AT provides a volt free contact fault report summary to remote paging and alarm system trouble warning.