

Application

Bramco's BA200 Communication Amplifier System provides flexibility and operation over large distances.

Stand alone or used in conjunction with our conveyor or Longwall Management Systems, the BA200 is an advanced three-wire voice communication system that interfaces with tone dialling PABX extensions and is used with a common 6 core Brambus lanyard system.

Bramco offers three types of Amplifiers:

1. Master Communication Amplifier with 16 button keypad
2. Slave Communication Amplifier with 4 or 16 button keypad
3. Mini Slave Amplifier with 4 or 16 button keypad (16 buttons are needed for PABX Dialing).

Operation Overview

- Each amplifier in the system has four operating buttons (minimum)
- Press to Talk button to communicate
- Call Local button to attract attention
- Call External button if communications are to be extended beyond the system.
- System Status for when a voice synthesiser is required to broadcast pre-recorded messages and warnings on the system
- Each amplifier is supplied with two removable I.S. Batteries (not the mini), one in use and one on standby to ensure the system is always ready for use.

Master Amplifier - 16 button keypad

One of these will be required on each system to provide the facilities of decoding and activating:

- Pre-Start Warning via the communication system, either triggered or broadcast
- Surface Communication
- System Status request
- PABX Dialing (using T.I.M Telephone Interface Module)

Slave Amplifier - 4 or 16 Button

The Slave Amplifier performs the basic functions for a voice communication system. Each Slave Amplifier provides facilities to:

1. Talk Amplifier to Amplifier
2. Call Local
3. Request Status
4. Call External

By adding the Pre-Start Warning control option to the system each Amplifier now offers: Audio and Visual Pre Start Warning

Mini Slave - 4 button

These (like the BA200 Slave Amplifiers) perform the basic functions of voice communications with talk, call, status request and call External. These units are smaller, more compact, with lower output for PSW and have one battery only.

Pre-Start Warning

The Pre-Start Warning (PSW) function is integral in each Amplifier via a distinct audio siren and visual flashers. Each Amplifier is continuously monitored during PSW for correct operation.



Telephone Dialing Facility

PABX Dialing Telephone Communication is an option on Masters and Slaves. From any Amplifier along the system fitted with dial facilities a PABX call may be made. Once the call is established voice communications extends to all Amplifiers on the system.

Features

- Dual 9.6V I.S Batteries (1 on standby)
- Full 4 watts of output power
- Dual Speakers
- Dual Pre-Start Warning Audio
- Energy Saving Shut Down 2 hours after power disconnected
- Approved for use in Hazardous/gaseous atmospheres
- Optional PABX dial facilities (see Telephone Interface Module)
- Optional Visual Pre Start Warning
- Voice synthesiser broadcast option when used with our CCMS Module
- Optional PSW Fault Monitoring

These amplifiers may be used in conjunction with the PSW modules (see PSW data sheet).

Specifications

Power Supply

- 240vAC and 110vAC
- 50/60Hz

Voltage Tolerance

- -30% to +20%

System Amplifier Supply

- 14 to 32vDC, I.S. battery operated.

I.S. Barriers Input

- 14vDC - 28vDC

Output IS

- 450mA at 24vDC
- 850mA at 21vDC

- Non IS 2Amp at 32vDC

Ordering Information

A00551 Master Amplifier - 16 button keypad

A00550 Slave Amplifier - 4 button keypad

A00552 Slave Amplifier - 16 button keypad

A00675 Mini Slave Amplifier - 4 button keypad

A00676 Mini Slave Amplifier-16 button keypad

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