



Features

- Allows any telephone sub-subscriber to address the site PAGA system
- Totally inhibits acoustic feedback
- Real time monitoring
- Automatic gain control
- Wide frequency response
- Compensates for varying speech level conditions
- Highest intelligibility of speech

Telephone Interface

Description

The BARTEC VODEC MSR60 is a solid-state temporary voice store designed to completely eliminate acoustic feedback (Larsen effect) when PABX telephone subscribers are allowed access to a BARTEC VODEC PAGA broadcast paging system. Without MSR60 live telephone handsets in the vicinity of public address loudspeakers would be prone to the detrimental affects of acoustic feedback with attendant corruption of the voice message broadcast.

The MSR60 comprises of a rot proof rugged ABS plastic enclosure which houses a single motherboard based electronics module that carries field cable terminations, power supply and voice storage processor.

The unit is designed for safe area wall/bulk head mounting and should be ideally located adjacent to the PABX switch.

MSR60 is designed to interface to the PABX switch by either "2/4-wire E and M" port or "2-wire subscriber" line. Output interface to the host paging broadcast system is by 0dBm audio line and dry "push to talk" PTT contact.

Note: the unit is equipped, as standard, for duplicated A and B system execution; hence 2 x fully isolated audio and PTT contacts are fitted to enable independent host control (thereby possibility). Connection between the MSR60 and host PAGA rack is by 2 x pairs of conductors per A and B PAGA system.

The unit operates as follows:

- Telephone subscriber dials the number corresponding to the MSR60 PABX port input (this is programmed in the PABX switch, e.g. 555 is dialled to access the PAGA system).
- The MSR60 is accessed by the PABX and returns a short prompt tone to the subscribers earpiece via the PABX
- Subscriber issues message which is stored in MSR60 semiconductor memories, (up to 60 seconds of text can be stored) with a second prompt tone given to the subscriber after 50 seconds, to flag memory expiry imminent.
- Upon subscriber returning the handset to cradle, the MSR60 now replays the stored message over the broadcast system loudspeakers.

MSR60 incorporates a high performance speech processing sub-system that includes AGC (automatic gain control) essential for maximising amplifier efficiency and a wide bandwidth speech storage medium, which assures high voice intelligibility.

The engineer is able to configure the MSR60 to deliver the stored message once, twice or four times depending on tamper proof switch settings.

Zoned broadcasts:

The MSR60 carries a DTMF decoder that enables subscriber broadcast area selectivity.

For example a paging broadcast might only be required in a certain area of the plant, by keying a zone up to eight discretely selectable zones are possible with a single P3-MSR60, i.e. dial "1" = zone 1: dial "2" = zone 2 and so on.

The MSR60 incorporates a "real time" monitor/censor facility, MSR/2C, that enables the operator to listen to the subscriber text as it is recorded by the store via an extension loudspeaker facility.

In the event that the message being recorded is undesirable the operator can depress a RESET key which returns the store to quiescent.

A second latching (press on press off) "DISABLE" key allows the operator to inhibit the MSR60 facility completely.

The optional MSR/2C monitor panel consists of a standard 19 inch 2 unit high panel which carries loudspeaker and operator push button controls, the MSR/2C monitor panel to the MSR60 voice store and telephone interface unit.

The MSR60 is energised from AC mains supply via an integral universal supply converter which allows operation from power supply inputs ranging from 100V AC to 250V AC *without* link selections.

A secondary input is available allowing MSR60 to operate from 24V DC mains supply.

Technical Data

Supply

100 – 250V AC 50/60Hz, DC 24 V

Consumption maximum

20 Watts

Heat emission

5 Watts

Input interface, trunk

2 or 4 wire E and M port

Input interface, subscriber

2- wire subscriber

Output interface

2 X 0dBm 600 Ohm audio lines
2 X Volt free change over contacts rated 0.25A @ 24V AC

Storage time

60 seconds 3.4kHz

Bandwidth

3.4kHz

Record volume control

High – low

Playback volume control

High – low

Monitor loudspeaker output

500mW

Loudspeaker output impedance

8 to 16 Ohms

Size

200 mm wide
75 mm high
120 mm deep

Weight

1.7 kg

Temperature range

-20 °C to +60 °C

Humidity

Up to 100%

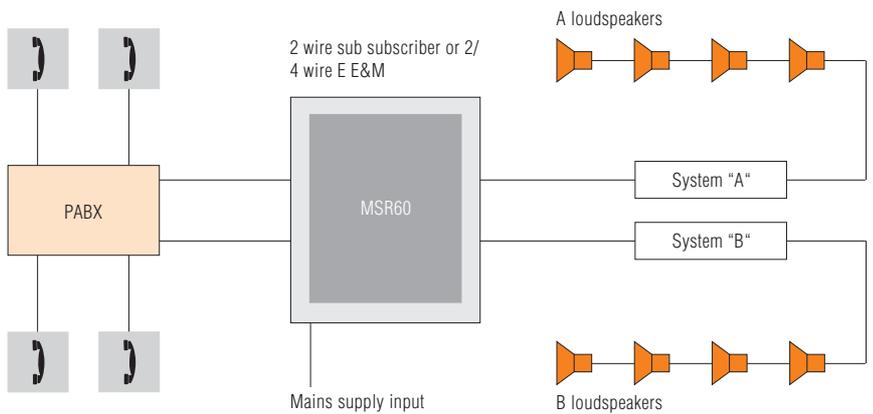
Environmental rating

IP65

Enclosure material

ABS plastic

Telephone sub subscribers



Simple block diagram showing MSR60 60 as part of duplicated A+B system