



- Allows any telephone sub-subscriber to address the site PAGA system
- **Totally inhibits acoustic feedback**
- Duplicated A+B PA/GA interface

Technical data

Supply	AC 100 to 250 V, 50/60 Hz, DC 24 V
Consumption maximum	20 W
Heat emission	5 W
Input interface, trunk	2 or 4 wire E and M port
Input interface, subscriber	2- wire subscriber
Output interface	2 x 0 dBm 600 Ohm audio lines 2 x Volt free change over contacts rated 0.25 A @ AC 24 V
Storage time	60 sec. 3.4 kHz
Bandwidth	3.4 kHz
Record volume control	high – low
Playback volume control	high – low
Monitor loudspeaker output	500 mW
Loudspeaker output impedance	8 to 16 Ohms
Dimensions (width x height x depth)	200 mm x 75 mm x 120 mm (7.87 inch x 2.95 inch x 4.72 inch)
Weight	1.7 kg (3.7 lbs)
Temperature range	-20 °C to +60 °C (-4 °F to +140 °F)
Humidity	up to 100 %
Environmental rating	IP 65
Enclosure material	ABS plastic

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 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 AC 100 V to 250 V without link selections. A secondary input is available allowing MSR60 to operate from DC 24 V mains supply.

The PSC 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 PSC VODEC PA/GA broadcast paging system. Without MSR60 live telephone handsets in the vicinity of public address loudspeaker 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 PA/GA rack is by 2 x pairs of conductors per A and B PA/GA 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 PA/GA 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.