

Premier Acoustic Product Datasheet



BT5 PHONE PAGER

The BT interface is used to connect the phone system to the public address system. It enables anyone to make paging call from a phone

The BT is connected to designated 2-wire analogue extension port via a master line jack unit. The output can be at either mic, or line level, to suit the amplifier being used.

When connecting the interface to the amplifier it is important to ensure that screened cable is used and that the screen is grounded at both ends.

To use the system, dial in to the designated extension number. An acknowledgement tone will be heard in the receiver after which the broadcast can be made.

When the call is completed, allow approx 2 seconds and replace the handset. This avoids the possibility of a mechanical and electrical thump, followed by 2 seconds of dial tone being heard in the speakers.

If the amplifier has a chime built into it, the chime will sound when the amplifier is accessed. Time must be allowed for the chime to finish, before starting the broadcast. This will avoid talking over the chime.

When using an amplifier without a chime it is possible to fit a chime board MIM33 into the BT5. When you do this R13 on the PCB must be disconnected. It is raised up above the board making it easy to disconnect with a pair of cutters. Make a call as before and the chime will be heard from the receiver.

There are three pre-set potentiometers on the board, which are factory set and should not be adjusted unless absolutely necessary.

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VR1 – Vox Sensitivity

The unit has VOX circuitry that will be activated during normal speech allowing the broadcast to be made. If you stop speaking the VOX will release, terminating the call.

If the call phone is located in a noisy area, call termination may be prevented due to the background noise holding up the VOX. Also if the caller replaces the phone quickly it is possible that the dial tone could prevent call termination and would be heard in the speakers for up to 40 seconds. To overcome the problem use VR1 to reduce the VOX sensitivity and the tone will only be heard for 1 second.

VR2 – VOX Release

This is used to indicate the amplifier is in use. If taken to 0V the busy tone pips will be sent to the caller. Ensure that the input used for the BT5 does not produce a busy condition.

BT5 Specification	
Engaged Tone	600Hz, 250 ms on – 250ms off, -13dBm
Acknowledged Tone	600Hz, 2 sec @ -13dBm
Tone Level To Line	-13dBm
Min Ringing V To Operate	11V @ 50Hz
Min Line Current To Hold	30mA
Ren Value	1.0
Output Level At Limiting Line	0dBm @ 600 Ohms
Output Level At Limiting Mic	5mV @ 22 Ohms
Time Out Delay Normal	28 Seconds
Time Out Delay Engaged i.e. Busy	8 Seconds
Supply Input	220 – 240V, 50Hz
Supply Input Fuse Protection	250mA (T)
Supply Protection Fuse	50mA (F)
Line Protection	6.8V, 1.3W
Dimensions	270W x 122H x 70D

BT5 is approved for connection to the BT network approval No. S/2455/3/H/452969