

BT5 & BT8 Telephone Interface Units



Baldwin Boxall's BT units provides staff with the ability to dial into the Public Address (PA) system from their own desk telephone. The free standing units act as an interface between the telephone system and the PA, providing everyone with the opportunity to contact other members of staff or to make general announcements. This avoids the need to contact a busy reception/switchboard with a request to put a call out.

Installation is achieved by simply connecting a unit to an available telephone extension socket (BT5) or a building's telephone exchange (BT8) and also the PA amplifier. A paging announcement can then be made by any member of staff by dialling into the unit's extension.

BT5

The BT5 is fully approved by BT (approval number S/2455/3/H/452969) and provides an easy to operate live paging facility. Upon dialling the extension the user will hear an acknowledge tone, followed by a chime (optional OPT33 fitted), indicating that an announcement can be made via the public address system. Upon completion of the broadcast, the BT5 will disconnect from the PA system and release the telephone extension ready to accept another paging call.

Outputs are selectable from line or microphone level with priority control available should it be required.

BT8

As well as the ability to make live announcements, the BT8 provides the user with the option to pre-record an announcement. This reduces the risk of feedback when the telephone is being used adjacent to a loudspeaker.

When connected to a telephone system with MF signalling, the BT8 provides the user with the option to select up to eight zones via the telephone keypad. An internal selector determines if the recorded message is played once or twice.

BT8 units can be wired into any two wire analogue extension port via a designated master extension socket. Another option is to connect the unit to the paging port available on most modern telephone switches. However, they are NOT designed to operate on keyphone system extension ports.

The output from the BT8 is at microphone or line level. The signal output and zone select connections are via a 25 way D connector. This is compatible with our BDM300 range of desk microphones and plugs into the BMS25 socket box that is supplied. We recommend using our B81R relay unit for the zone select switching. The unit is powered and supplied with an IEC mains lead.

Please note: the BT8 is not approved for direct connection to the BT network. Under general approval NS/G/23/J/100003 it may be connected to a port on a telephone switch (PABX).

BT5/8 Technical Specifications:	BT5	BT8
Ring Voltage	11V @ 50Hz	20-70V @ 17-25Hz
REN value	1.0	1.0
Mic output level	5mV @ 22 ohms	2.5mV @ 22 ohms
Line output level	0dBm @ 600 ohms	0dBm 775mV @220 ohms
Engaged tone	600Hz, 250ms on - 250ms off, -13dBm	N/A
Acknowledge tone	600Hz, 2 sec @ -13dBm	N/A
Tone level to line	-13dBm	N/A
Min line level to hold	30mA	N/A
Cleardown by either of the following:		
Time out delay	normal 28 sec - engaged/busy 8 sec	recorded 55 sec - live 2.5 mins
K break	N/A	interruption of line current
Voice operated switch	absence of caller speaking	absence of caller speaking
DTMF tone	N/A	sent from caller to terminate the call
Audio connections:		
Zone select outputs	N/A	8 x NPN open collector 40V @ 100mA max
Amplifier access output	1 x NPN open collector 40V @ 100mA max	1 x NPN open collector 40V @ 100mA max
Amplifier busy input	Connects to 0V via amp busy	Opto-coupled 12-30V 7mA max AC/DC
General		
Supply input	220-240V, 50Hz	220-240V, 50/60Hz
Fuse protection	50mA (F) 250mA(T)	20 x 5mm 250mA (T)
Dimensions	270mmW x 122mmH x 70mmD	270mmW x 122mmH x 70mmD