



BT8 TELEPHONE INTERFACE

Connecting the telephone system to the Public Address makes the paging facility available to all. It gives everyone the opportunity to contact other members of staff easily and quickly. This avoids the need to contact reception and asking them to put out a call.

The Phone Pager overcomes any chance of 'howl round' i.e. feedback when paging from a phone that is close to a loudspeaker. It does this by recording your message first and only replays it when instructed or when the phone is replaced. However if required the system can be operated in the live paging mode. Up to 8 zones can be selected or an 'all call' broadcast throughout the premises. Being able to select up to 8 zones gives the user greater control over where their call will go out.

Recorded messages can be 16 seconds long. When used in the 'live' mode, the call will be terminated automatically after 2.5 minutes. This is to conform to the regulations.

The BT8 is plugged into a designated extension socket. The output is at microphone or line level and is via a 25 way 'D' connector. This is compatible with our desk microphones and plugs into a BMS25 socket box. The BT8 is mains powered.

Operation Of The Phone Pager Using The Record Facility

1. Caller dials into the designated extension number.
2. Caller will hear a 1 second 900Hz acknowledgement tone to indicate they are connected to the system. If the amplifier is busy an intermittent 900Hz tone is heard.
3. A zone or zones is selected using keypad keys 1-8. An 'all call' will be selected automatically if no zones are chosen. If the caller mis-dials, pressing '0' will reset the system.
4. To record the message press # and then talk into the handset clearly and slowly.
N.B. If a mistake is made the recording can be terminated by pressing '0'. A short 900Hz intermittent tone will be heard after the '0' is pressed.
5. When recording is completed the caller presses any key except '0' and the announcement will be played through the P.A. system.
6. Caller replaces handset.
N.B. There is an internal DIL switch for deciding if the recording plays back once or twice.

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To Repeat Last Recorded Message

1. Caller dials into the designated extension number.
2. Caller will hear a 1 second 900Hz acknowledgement tone to indicate they are connected to the system. If the amplifier is busy an intermittent 900Hz tone is heard.
3. A zone or zones is selected using keypad keys 1-8. An 'all call' will be selected automatically if no zones are chosen. If the caller mis-dials, pressing '0' will reset the system.
4. Press key '9' and the previously recorded message will be replayed. This avoids having to re-record the message.
5. Caller replaces handset.

To Make A 'Live' Broadcast

1. Caller dials the designated extension number.
2. Caller will hear a 1 second 900Hz acknowledgement tone to indicate they are connected to the system. If the amplifier is busy an intermittent 900Hz tone is heard.
3. A zone or Zones is selected using the keypad keys 1-8. An 'all call' will be selected if no zones are chosen. If the caller mis-dials, pressing '0' will reset the system.
4. Caller presses the * key momentarily. The caller then speaks directly into the P.A. system.
5. On completion of the message the caller presses any key to terminate the call.
6. Caller replaces handset.

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LINE CONNECTIONS

RING VOLTAGE:	20-70V 17-25Hz
REN VALUE:	1.0
ACKNOWLEDGE TONE:	1 SEC OF 900Hz @ -9dBm
BUSY TONE:	250mS ON, 250mS OFF, 900Hz

CLEARDOWN By either of the following:

K Break:	Interruption of line current
Voice Operated Switch:	Absence of caller speaking
Dial Tone Detector:	350-440Hz from telephone switch
DTMF Tone:	Sent from caller to terminate the call
Time Out:	Recorded 32 secs, live 2.5 minutes

AUDIO CONNECTIONS

Zone Select Outputs: 8 off	NPN open collector 40V @ 100mA max
Amplifier Access Output: 1 off	NPN open collector 40V @ 100mA max
Amplifier Busy Input:	Opto coupled 12-30V 7mA max AC/DC
Mic Output Level:	2.5mV
Mic Level Source Impedance:	22 ohms
Line Output Level:	0dBm 775mV
Line Output Source Impedance:	220 ohms

AC SUPPLY INPUT

	220 – 240V 50/60 Hz
Fuse Protection:	20 X 5mm 250mA(T)

AMPLIFIER CONNECTIONS

<u>FUNCTION</u>	<u>CABLE COLOUR</u>	<u>BMS 25</u>
ZONE 1	GREEN	1
ZONE 2	GREY	2
ZONE 3 NPN Open Collector O/p	PINK	3
ZONE 4 40V @ 100mA Max	ORANGE	4
ZONE 5 To zone Select Relays	TURQUOISE	5
ZONE 6	WHITE/RED	6
ZONE 7	WHITE/BLUE	7
ZONE 8	GREEN/RED	8
Mic Output Level 2.5mV Floating	BROWN	16
Cable Screen – Connect to 0V	CABLE SCREEN	17
Mic Output Level 2.5mV Floating	BLUE	18
0V	BLACK	19
Access Amplifier – NPN Open Collector Output 40V @ 100mA Max	WHITE	21
Busy Input – Opto-Coupled 12-30V 7mA Max AC/DC	MAUVE	22
Busy Input – Opto-Coupled 12-30V 7mA Max AC/DC	YELLOW	23
Line Output Level 775mV Floating	YELLOW/GREEN	24
Line Output Level 775mV Floating	WHITE/GREEN	25