



Telephone Paging Interface

MODELS LP and DTMF

Installation & User Manual

Scope Telephone Paging Interface

Section 1

System Overview

IMPORTANT! This unit must not under any circumstances be connected direct to the public telephone network. It is only intended for indirect connection to an in-house telephone exchange. Any attempt to operate the unit other than as intended will invalidate all equipment warranties and may result in damage to the equipment, the telephone network or both.

The Scope digital paging interface can be used to transmit text or numeric messages from any telephone connected to your exchange, direct to the pocket of the individual being paged. There are two types of interface available, these cover all types of keyphone, hybrid and PABX systems with DTMF capability. These can be supplied in two basic configurations:

1) ---LP. This interface connects to an external line port, it is supplied with a 50 volt supply to provide the required voltage to the line port. This unit will work with any telephone system that can send DTMF to the assigned port, without receiving a dial tone.

2) ---DTMF. This interface is only intended for use with systems dedicated to two wire ports. Access is gained by dialling the extension number, the ringing will alert the system which will pick up the line. Use of this interface with keyphones or hybrids of any sort is not recommended and we cannot provide any support for such applications! Avoid any equipment with four wire capability!

Both of these interfaces contain BS6301 isolation devices. There is total electrical isolation between the paging logic and power supply, and the PABX side of the apparatus.

Installation:

For interface type LP, the A and B wire of the external line port are connected to a 2/3a line jack on terminals 2 and 5.

For the DTMF- PABX interface, use the lead provided to plug into a standard 2 wire extension socket as for any (SLT) internal telephone.

Operation:

When the system leaves the factory, it will have been programmed with a default configuration which sets up the system as follows:-

Number of pagers:	RANGES SET AS ORDERED
Default bleep type:	A
Password:	72765
System Identity:	REFER TO ORDER DOCUMENTATION

The system parameters can be changed and re-programmed via any telephone on the system, if required (see Section 3: **Program Parameters**). However, we recommend that you try the system in it's default configuration before attempting any reprogramming operations.

Your system has been programmed to be fully functional before leaving the factory, there is no need to change any settings if you are happy with the factory settings.

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Section 2

System Operation

Numeric pagers

STEP 1:- CONNECT TO SYSTEM

DIAL PAGING SYSTEM EXTENSION NUMBER OR LINE PORT
WAIT FOR SIGN-ON TONES (THREE NOTES ESCALATING LOW TO HIGH)

STEP 2:- ENTER PAGER NUMBER (OR GROUP NO.) TO BE CALLED

TYPE (PAGER NUMBER)
TYPE *
WAIT FOR ACCEPTANCE TONE OR PROCEED (SINGLE MID TONE)

STEP 3: ENTER NUMERIC MESSAGE TO BE SENT COMPRISING 0,1,2,3,4,5,6,7,8,9.

TYPE (NUMERIC DIGITS MAX 20)
TYPE *
WAIT FOR SIGN OFF TONES (FOUR TONES HIGH,LOW,HIGH,LOW)
REPLACE HANDSET

REJECTED DATA IS SIGNALLED BY A SINGLE LOW BEEP, RE-ENTER DATA FROM STEP 2 OR REPLACE HANDSET, WAIT FOR TIME OUT AND START AGAIN.

Alphanumeric pagers

Some alphanumeric pagers can be used with this system when programmed to accept a numeric word format to retrieve pre-defined alphanumeric messages held within the pager itself

FUNCTION:- CONNECT TO SYSTEM

DIAL PAGING SYSTEM EXTENSION NUMBER OR LINE PORT
WAIT FOR SIGN-ON TONES (THREE NOTES ESCALATING LOW TO HIGH)

FUNCTION:- ENTER PAGER NUMBER OR GROUP TO BE CALLED

TYPE (PAGER NUMBER)
TYPE *
WAIT FOR ACCEPTANCE TONE OR PROCEED (SINGLE MID TONE)

FUNCTION: SEND TRIGGER FOR PRE-DEFINED MESSAGE. Select one of the pre-defined messages from the table supplied with your pager manual.

TYPE * (MESSAGE NUMBER)
TYPE *
TYPE (NUMERIC MESSAGE TO BE ADDED ON TO THE PRE-DEFINED MSG)
TYPE *
WAIT FOR SIGN-OFF TONES (FOUR TONES HIGH,LOW,HIGH,LOW)
REPLACE HANDSET

Rejected data is signalled by a single low beep, re-enter data from step 2 or replace handset, wait for time out and start again.

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Section 2

Advanced features

When proficient at using the system, you can speed up your paging by not waiting for the prompt tones, simply enter the pager number message and listen for the sign off tones. If you replace the handset prior to hearing the sign off tones the page will be aborted. It is possible to send the page without waiting for the sign on tones, this may well require the delay before sending the sign on tones to be lengthened (see programming section on 'SET TIME BEFORE SIGN-ON TONES'). To achieve this facility you must send valid DTMF tones to be received by the system before the sign-on tones are generated. It is therefore possible to extend the sign-on delay past the inactivity timer, which effectively means that the sign-on tones will never be received.

Speed dialling

It may be possible to effect some speed dial functions with your telephone system, however telephone exchanges vary as to the way in which they perform depending upon their own internal protocol. With certain systems you may have to establish an audio connection with the port prior to sending the message. With other systems it may be possible to programme pauses between accessing the port, sending the pager number and sending the message. If this is possible, it will be necessary to extend the 'TIME BEFORE SIGN-ON TONES' to allow valid data to be sent before receiving the sign-on tones.

Tone only paging

Numeric and alphanumeric pagers can receive tone only calls by entering * in place of the message.

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Section 3

System Parameters

All system parameters can be altered via the programming menu, which is accessed by entering the password.

The adjustable parameters are as follows:

- 1 Number of rings before answering *
- 2 Time before Sign-On Tones
- 3 Default Beep Type
- 4 Inactivity timeout
- 5 Program Password
- 6 Not Used
- 7 Set Pager Type Range
- 8 Set Transmitter Base Identity Number

*DTMF only. For LP type, value must be set to 1
