

ELECTRICAL INSTALLATION

External Bell

All bells must be approved for connection to the telephone network. They are of the low frequency A.C. type (15Hz-25Hz). D.C. versions must NOT be used. Connect to terminals 2 and 4 of the tag block. Ensure that DIP switch SW18 3 is set to '3 (ON)' enabling the internal bell capacitor if a master socket is NOT used.

Call Restriction Timeout (used when 'CLEAR' key is not fitted)

If this facility is enabled (SW18 -1 set to 'OFF') then each call will be time restricted to approximately 1 minute, in one of two ways, set by SW18 - 2.

1. Fixed - (SW18- 2 set to 'OFF') the 1 minute starts from the last press (and release) of the 'PRESS TO CALL' key or the service required.
2. Auto - (SW18 - 2 set to 'ON') the 1 minute starts from the end the last incoming tone or speech.

Line Terminal Mode Selections

Summary of mode selectable DIP switches:-

| | | |
|--------|---|--|
| SW18-1 | Timeout enable: | OFF - enable ON - disable (factory setting) |
| SW18-2 | 1 minute timeout selection: | OFF - fixed (factory setting) ON - automatic |
| SW18-3 | Internal Bell capacitor (disabled when master socket is used) | ON - enabled OFF - disabled (factory setting) |
| SW24-1 | Loop Dial or DTMF Dial | Loop Dial- A (factory setting) DTMF- 1 |

APPROVED for connection to telecommunication systems specified in the instructions for use subject to the conditions set out in them



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USER GUIDE

FOR RA711/1011, /1012 & /1013
VANDAL RESIST TELEPHONES

Part No: 552625
Issue 6



CONTENTS

This guide is in two parts. The first part is provided for users of this instrument and the second part is for the sole use of your approved telephone installer.

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ELECTRICAL INSTALLATION

Line Terminal Connections and Selections

DO NOT CONNECT THE LINE TERMINATIONS UNTIL PROGRAMMING-IS COMPLETE (see page 12).

The number of telephones that can be connected to a direct exchange line or PBX extension is limited by the ringer equivalence number (REN) of all the telephones connected, this should not exceed a total value of 4.

The REN value of this telephone is 1. In case of doubt consult your telephone supplier.

The Terminal block mounted at the back of the unit is labelled as follows:-

1. Line (B)
2. Bell mute / extension bell
3. Not used } plug 431A
4. Line (A) / extension bell
- 5.
6. } External induction loop for Hearing Aid (3 turns, 1m dia)
7. 0 volt
8. +9 volt } external 9 volt dc supply

For a 2-line installation connect 1 and 4.

Programming of Autodial Keys

Ensure that the telephone is disconnected from the telephone line and that the 9 volt power supply is connected and switched ON. DO NOT USE THE FRONT PANEL KEYS. To store telephone, numbers 'behind' the Autodial proceed as follows

1. Press 'ON', immediately followed by 'STORE'.
2. Press particular Autodial key to be programmed, 'S0', 'S1' or 'S2'. These keys are part of the group which include the 'STORE' and 'PAUSE'. Note that 'S0' corresponds to the top (EMERGENCY or PRESS TO CALL) front panel key, 'S1' to the middle and 'S2' to the bottom key.
3. Enter digits to be stored, (maximum 24). Include pauses as required for those exchanges that require you to wait for a second dial tone.
4. No digits will be sent to the telephone line.
5. Finish by pressing 'STORE' again, followed by 'CLEAR' if fitted on the front panel.
6. Reconnect the telephone to the line in accordance with the Line Connections shown above.

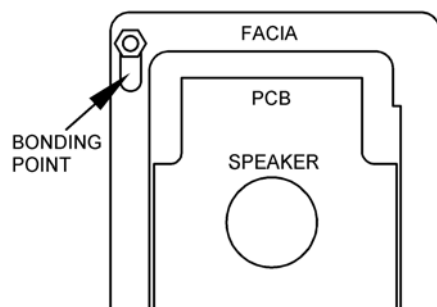
ELECTRICAL INSTALLATION

Electrical Connections

The cables are passed through relevant conduit and connected (in the case of directly wired situations) to the tag block on the instrument.

The telephone is to be earthed using the earthbonding point provided (see diagram).

If the telephone is situated within electrified railway locations, other regulations regarding earthing of trackside equipment may apply e.g. BR specification No. 1686 (Para 5.2.4).



Connect the 9 volt approved DC power supply, Pt.No. RA1050/1000, to terminals 7 and 8 and ensure that it is switched ON. The adjacent lamp will illuminate if connected correctly.

If the external hearing aid induction loop is to be installed, connect to the terminal block in accordance with the connections below and mount vertically around the instrument.

For versions /1011 and /1013 the Autodial keys have to be correctly programmed. The program memory requires power. This is supplied by the 9 volt power supply; loss of this power for a few minutes after disconnection will not cause memory loss and not at all if the line connection is made. It is not necessary to have the line connection in place during programming.

GENERAL

The types of telephones covered by this guide are approved in the United Kingdom under the No. S/3064/3/N/502517 for connection to:

- A direct exchange line (i.e. a line exclusive to the meter and not 'shared');
- To an extension of a direct exchange line;
- To an extension on certain types of PBX.

They are not suitable for use on party line installations or as extensions to a pay phone.

Facilities

RA711/1011:

1 number and 'CLEAR' button

RA711/1012:

2 numbers

RA711/1012/C:

2 numbers and 'CLEAR' button (optional)

RA711/1013:

3 number

RA71 1/1013/C:

3 numbers and CLEAR, button (optional)

Optional Extra

Hearing Aid Induction loop

RA1060/1000



APPROVED FACILITIES

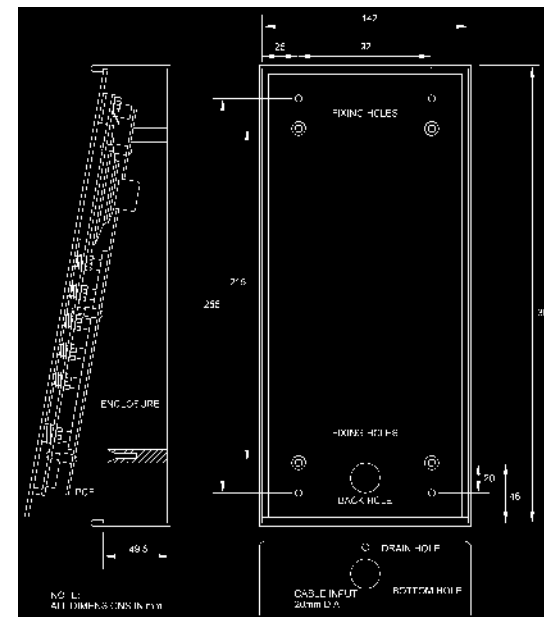
This apparatus has been approved for use of the following facilities:-

1. Loudspeaking (no handset) hands-free operation.
2. Visual indication of 'off-hook' condition (line looped).
3. Audible and visual alarm indication of incoming calls.
4. Installation access using special tools only.
5. External mains to DC power supply (9 volts) supplied with each instrument, Part No. RA1050/1000.
6. Provision for external induction loop for hearing aid use, Part No. RA1060/1000.
7. Provision to introduce equivalent 'master socket' bell capacitor for directly wired applications, set by DIP switch on installation.
8. Provision to connect external extension bell.
9. Provision to enable automatic clear down of call loop, either fixed timeout or timeout after loss of incoming speech, approximately one minute. Set by DIP switch on installation,
10. Mounting flush to vertical surface, a back-box is provided utilising standard 20mm 'knock-outs' for cable access. An optional back-box for conventional surface (protruding) wall mounting is available
11. Up to three 'Autodial' keys initiate a fixed, pre-programmed, series of digits (24 digits maximum per key).
12. Selectable Loop Dial or DTMF dialling, set by DIP switch on installation.
13. Optional 'CLEAR' key on RA711/1012 and RA711/1013 where auto-call clear-down is inconvenient
14. With a PBX with or without secondary dial tone.

INSTALLATION

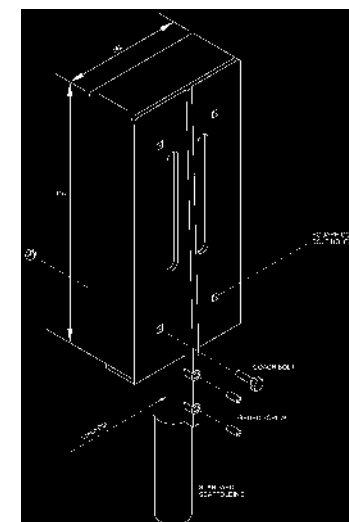
Wall Surface Installation

1. Fix the surface mounting back box to the wall, with cut-out at the bottom, using size 8 or 10 screws with rawplugs (4 off).
2. Connect the cabling, as detailed under Electrical Connections, and then fit to the back box (as described under Wall Flush Installation, item 3).
3. Use any suitable silicone waterproofing sealant (such as Unibond Waterproof Flexible Frame Sealant) to seal to the back box. Leave a 12mm to 13mm (0.5") gap at the bottom for drainage.



Top-of-pole Installation

1. Place the top-of-pole mounting over the top of the pole.
2. Tighten the grubscrews to secure the mounting.
3. Fix the surface mounting back-box to the top-of-pole mounting with the screws provided.
4. Connect the cabling, as detailed under Electrical Connections, and then fit to the back-box (as described under Wall Flush Installation, item 3).



OPERATION - RA711/1011

To make a call

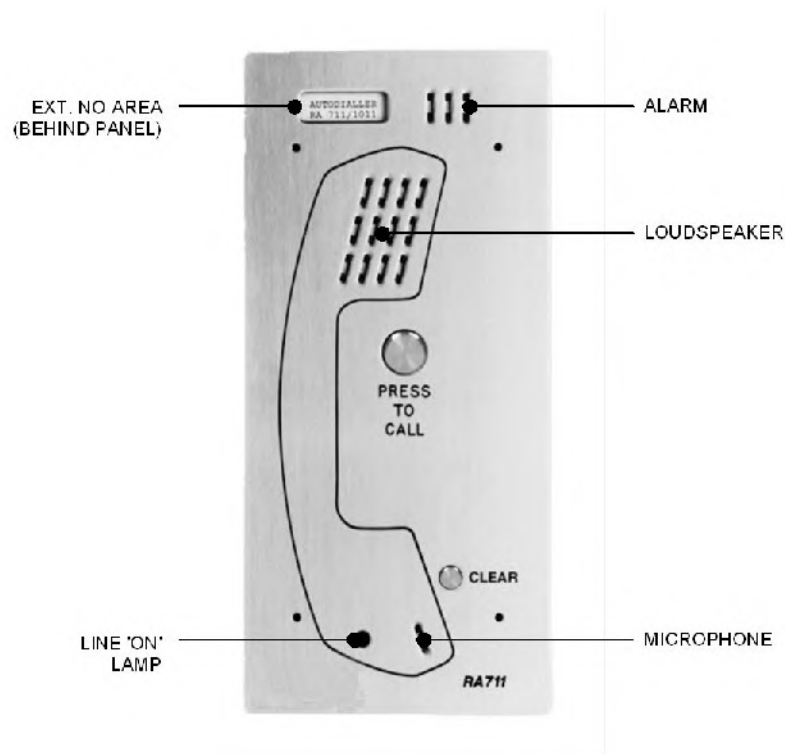
Depress the 'PRESS TO CALL' key, dialling tone will NOT be heard.

Dialling takes place automatically, including pauses.

At the end of a call press 'CLEAR' or wait one minute for automatic cancellation of call.

To answer a call

Depress the 'PRESS TO CALL' key (this will not initiate dialling whilst the telephone is being called). At the end of the call press 'CLEAR' or wait one minute for automatic cancellation of call.



OPERATION - RA711/1012 &/1013

To make a call

Depress the 'Autodial' key for the service required, dialling tone will NOT be heard.

Dialling takes place automatically, including pauses.

At end of call press 'CLEAR' or wait one minute for automatic cancellation of call.

To answer a call

Depress any Autodial key (*this will not initiate dialling whilst the telephone is being called*). At end of call press 'CLEAR' or wait one minute for automatic cancellation of call.

