

762R

Two Channel Receiver



Installation and Programming Guide

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1. INTRODUCTION

The 762r is a two-channel receiver that operates on narrowband 868MHz and can be used with all current Scantronic 868MHz transmitters (see Chapter 2). The 762r can be used either as a stand alone unit, or as the radio interface for a wired alarm panel.

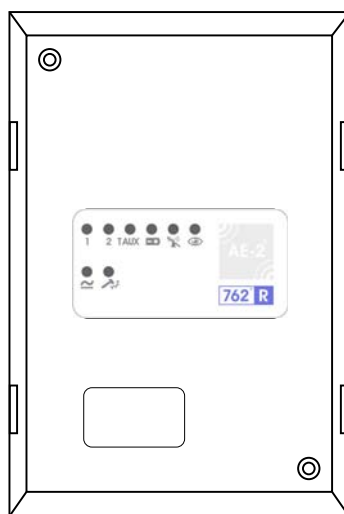


Figure 1. 762r

Each channel can handle up to four separate transmitters of the same type, allowing a single 762r to handle up to 8 transmitters. In addition, the 762r allows the installer to programme different modes to different channels, instead of being forced to select a single mode for both channels. The 762r assigns default modes when it learns a transmitter.

The 762r normally works with an internal aerial. If necessary you may connect a suitable external aerial to the unit. Chapter 2 gives details of suitable aerials.

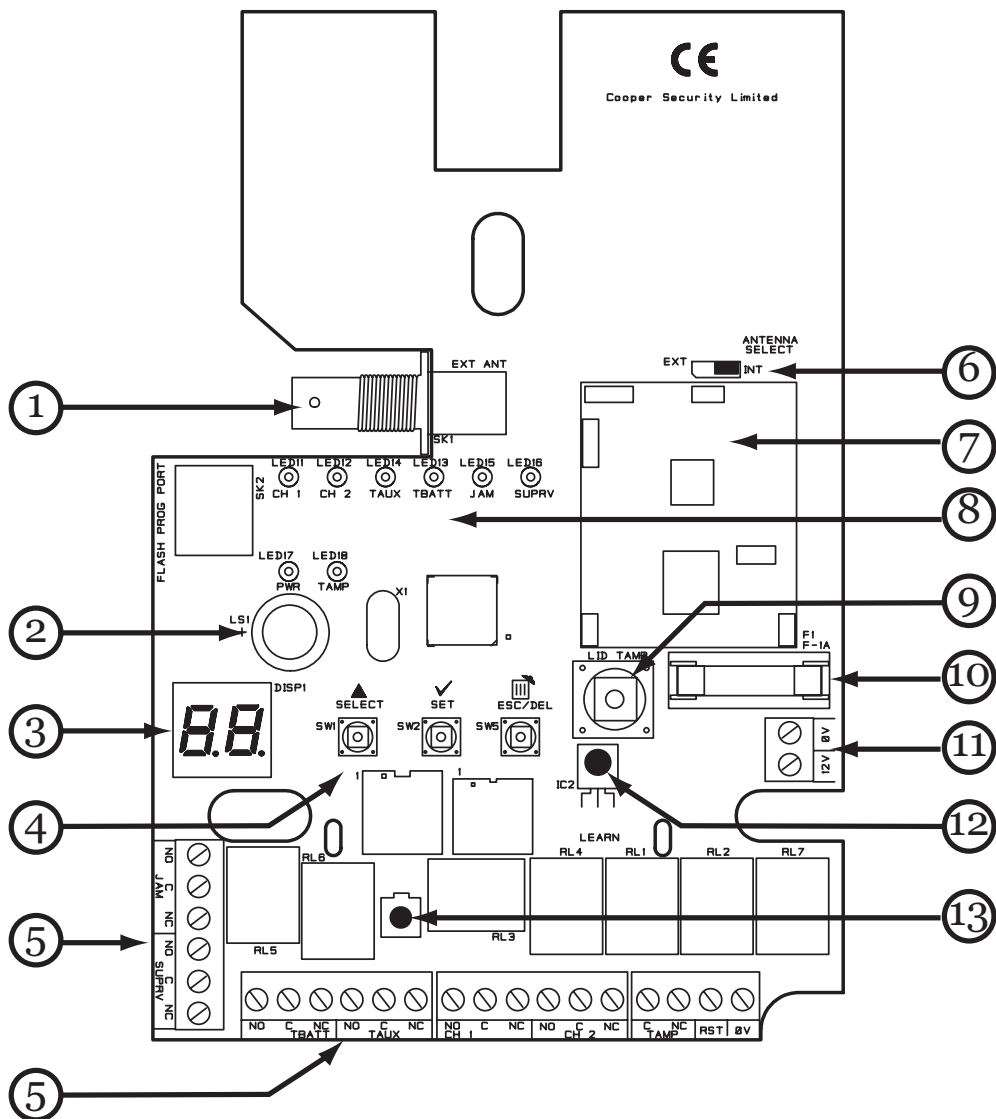
2. TECHNICAL DESCRIPTION

SPECIFICATION

Channels	2 channels, four devices per channel.
Display	Two by seven-segment LED. Visible with case open.
Compliance	Product is tested to 1995/5/EC R&TTE Directive.
Radio Section	Operating frequency 868.6625MHz at 20kHz bandwidth. I-ETS 300 220. CE tested to I-ETS 300 339 (draft standard).
Input Power	9-15VDC Quiescent current 55mA. All outputs active 200mA
Outputs 1 and 2	Relay contacts, no/nc, 2A at 25VDC
Dimensions	H x W x D = 183 x 129 x 32 mm.
Weight	0.35 kg

PHYSICAL LAYOUT

The 762r is a wall mounted unit housed in a polycarbonate box made to BS4734 requirements. Figure 2 is an expanded view of the 762r printed circuit board (PCB) showing the location of the connectors and controls.



- | | | | |
|---|------------------------------------|----|------------------------|
| 1 | External antenna connector | 7 | Receiver module |
| 2 | Sounder | 8 | Output status LEDs |
| 3 | Programming display | 9 | Lid tamper switch |
| 4 | Programming switches | 10 | Fuse (1A) |
| 5 | Connectors for outputs | 11 | Power supply connector |
| 6 | External/internal antenna selector | 12 | Infra red learn sensor |
| | | 13 | Reset switch |

Figure 2. PCB, Controls And Connectors

CONTROLS AND DISPLAYS

Front Panel

The 762r uses the display panel shown in Figure 3.

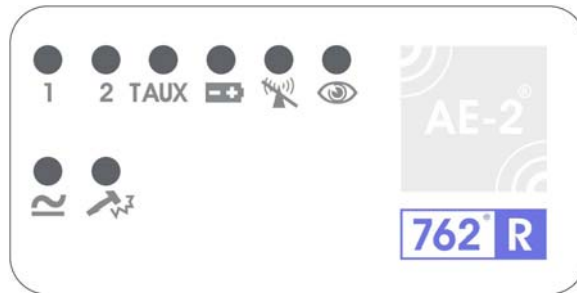







Figure 3. 762r Front Display Panel

The symbols on the display panel have the following meanings:

1	Output 1
2	Output 2
TAUX	Transmitter DC supply failed (703r only)
	Transmitter Low Battery
	Jamming
	Supervision
	Power
	Tamper

Each 762r has a connector for an external reset signal (see Figure 5). By applying 0VDC to the reset input you can reset the 762r.

Internal

The PCB provides a two digit LED display and three push buttons for programming channels and controlling the transmitter learning process. See Chapter 4 for details.

Just below the lid tamper switch is the infra-red learn detector. When making the 762r learn the identity of a transmitter from the transmitter's status LED, hold the status LED within 25mm of this detector. See Chapter 4 for more details.

INPUTS

Radio

The 762rEUR-50 contains a standard Scantronic 868MHz radio receiver. The receiver connects to both an internal aerial and a BNC aerial socket mounted on the main PCB. The installer can select either the internal or the external aerial by placing a jumper on the Antenna Select pins.

Each device sends information to the receiver using an attached radio transmitter. The transmitter relays the information in the form of radio data packets, using an FM signal. Each packet contains a code identifying the transmitter and information on the state of the detector. Every receiver within range picks up the transmitter's packets, but reacts only to those transmitters it has been programmed to notice.

Tamper

The 762r contains an internally mounted tamper switch to detect opening of the case lid (see Figure 2). If the lid is opened (or, should one be fitted, the external aerial tampered) then the 762r lights the Tamper LED and operates the Tamper relay contacts. The Tamper relay contacts are normally closed.

OUTPUTS

Relay Outputs

The 762r provides seven output relays. Figure 2 shows their position and Figure 5 shows the connectors. The Normally Open, Normally Closed and Common Terminals of the relays provide voltage free change over contacts.

Tamper	Normally Closed. Active when the Lid tamper is open or external aerial tampered.
Channel 1 and Channel 2	The Output 1 and 2 relays (and LEDs) report the status of transmitters. See Chapter 5 Programming for more information.
Low Transmitter Battery	The 762r uses the Low Transmitter Battery relay to report that a transmitter's battery is failing.*

TAux	Active when the DC supply on a transmitter fails. Note that currently only the 703r four channel transmitter supports this feature.*
Jamming	Active when the 762r detects jamming.
Supervision	Active when the 762r does not receive a transmission from a learned radio transmitter for more than a set time. See page 33.*

* *When the 762r triggers one of these relays it also flashes the channel LED associated with the faulty transmitter once every 20 seconds.*

Internal Sounder

The PCB carries a piezo electric sounder. When enabled, the sounder gives a short tone every time Output 1 or 2 operates. See page 31 for instructions on how to enable or disable the sounder.

POWER INPUT/OUTPUT PROTECTION

The 0V and 12V input terminals on the main PCB (see Figure 2) are protected against reverse connection and short circuit. The protection is provided by a 1A fuse.

COMPATIBLE EQUIPMENT

The following Scantronic equipment is compatible with the 762r:

701REUR-50	Landyard Pendant Transmitter
701rEUR-60	Pendant Transmitter
702rEUR-00	Watch Pendant Transmitter
703rEUR-00	Four Channel Transmitter.
705rEUR-00	Remote Set Transmitter
706rEUR-00	Tilt Switch/PA Transmitter
714rEUR-00	PIR Transmitter (Small case)
715rEUR-02	PIR Transmitter
719rEUR-02	Smoke Detector Transmitter
726rEUR-00	Short Range PA Transmitter
726rEUR-50	Long Range PA Transmitter
734rEUR-00	Door Contact Transmitter CC version
734rEUR-01	Door Contact Transmitter FSL version
735rEUR-00	Universal Transmitter.
739rEUR-00	PC Board for glass break detectors
746rEUR-00	Test transmitter.
790rEUR-00	Signal Strength Meter.
794rEUR-00	1/2 Wave Antenna with 5m coaxial cable. Tampered.
797rEUR-00	Co-linear Antenna with 5m of coaxial cable. For external use. Tampered.

3. PLANNING

GENERAL

Before Installation you should carry out a survey of the site. You need to know how many and what kind of transmitters will be operating through the receiver.

You also need to assess where the unit must be placed in order to communicate with the transmitters successfully. To do this you may need to conduct Signal Strength Tests using a Scantronic 790 hand held signal strength meter. The 762r unit also provides a signal strength test facility. Note that if you want to carry out signal strength tests you will need to provide a transmitter. Cooper Security Limited can supply the 746r test transmitter.

A final consideration is the power supply needed for the unit. Note that the 762r does not contain a power supply. Cooper Security recommend that you use the 1.2A power supply PSTS1.

ALLOCATING TRANSMITTERS AND MODES

The 762r selects default modes for each type of transmitter when you make the receiver learn a transmitter's identity. Cooper Security Ltd recommend that you do not change the default mode unless necessary.

To change the mode see Chapter 5 for more details on individual transmitters and modes.

SITING THE RECEIVER

Do site the 762r units:

Within a protected zone.

As high as possible. However, do make sure that the receiver is on a similar level to the transmitter.

Do **NOT** site the 762r unit:

In the entry or exit zones, or outside the area covered by the alarm system.

Close to or on large metal structures.

Closer than two metres from mains wiring and metal water or gas pipes.

Lower than two metres from the floor (ideally).

Inside steel enclosures.

Next to electronic equipment, particularly computers, photocopiers or other radio equipment, CAT 5 data lines or industrial mains equipment.

4. INSTALLATION

STATIC PRECAUTION

Like many other electronic products, the 762r contains components that are sensitive to static electricity. Try not handle the PCB directly. If you must handle the PCB, take the standard precautions against damage by static electricity.

FITTING THE CASE

1. Take the unit out of its packaging.
2. Undo the lid and open the case.
3. Hold the case against the wall and mark the position of the key hole (1 on Figure 4).

Note: Cover the PCB and put it to one side before starting to drill.

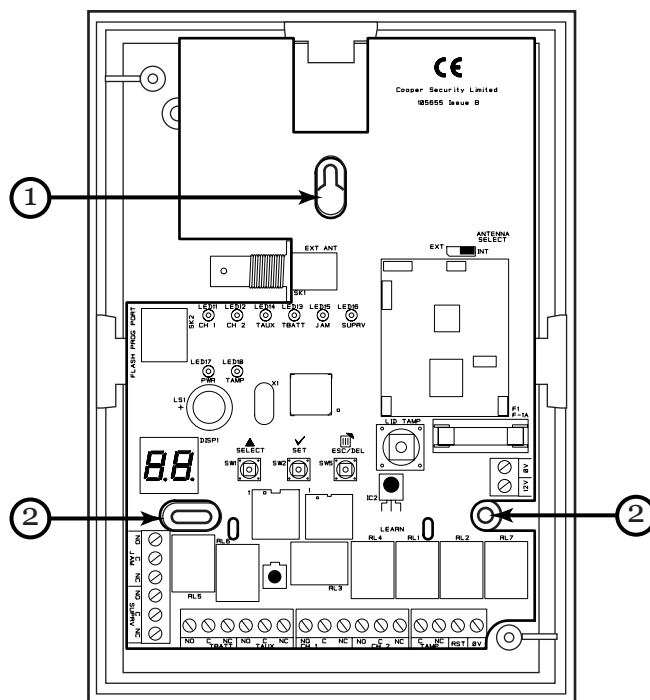


Figure 4. Mounting Hole Positions

4. Drill a hole at the marked position and insert a Rawl plug and screw.
5. Hang the case by the keyhole from the screw.
6. Mark the position of the other fixing holes onto the wall (2 on Figure 4).
7. Take the case down, drill holes for the fixing screws and insert the Rawl plugs.
8. Mount the case on the wall and screw home the fixing screws. Do not over-tighten the screws or you may crack the case.

INSTALLING THE AERIAL

The 762r can be fitted with an external aerial. Pass the aerial lead into the case through a convenient opening, and fit the connector to the BNC connector on the main PCB (see Figure 2). When using a tampered aerial do not forget to move the Internal/External antenna selector jumper ("6" on Figure 2) into the appropriate position.

Note: Make sure you remove all power from the 762r before fitting an external aerial. This is to make sure that the unit recognises the presence of the aerial on powering up.

UNIT CONNECTION

You may connect the 762r to a control panel either from the connectors on the main circuit card. Figure 5 shows in detail the connectors available on the main PCB.

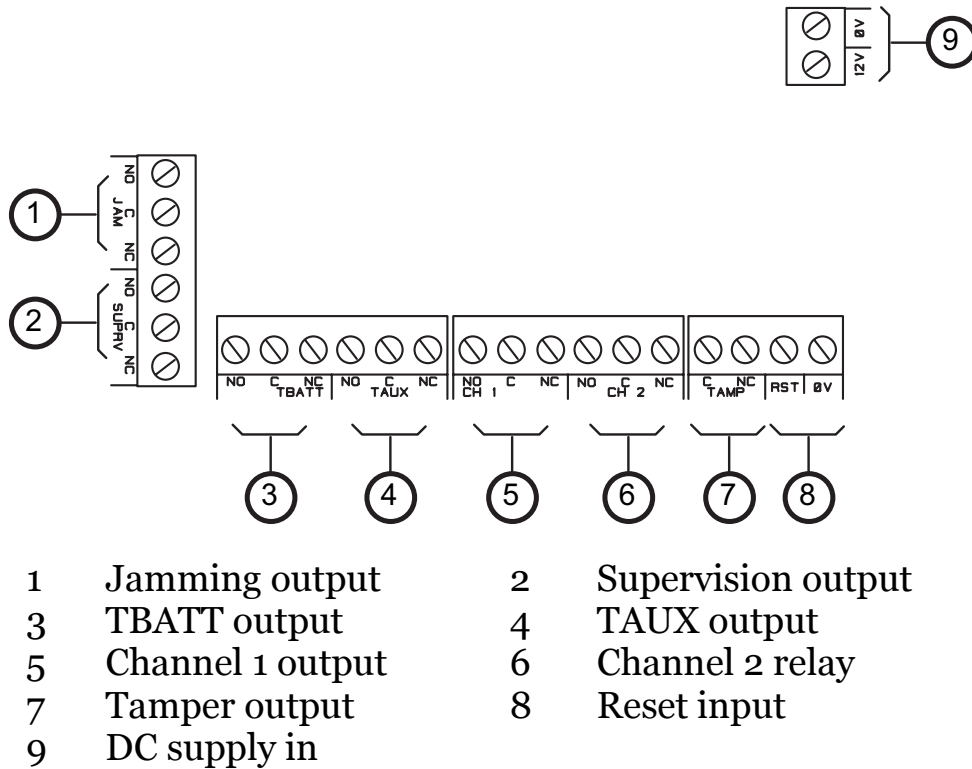


Figure 5. PCB Main Connector.

External Reset Connection

Figure 6 shows an example of connecting a unit to a control panel for an external reset signal.

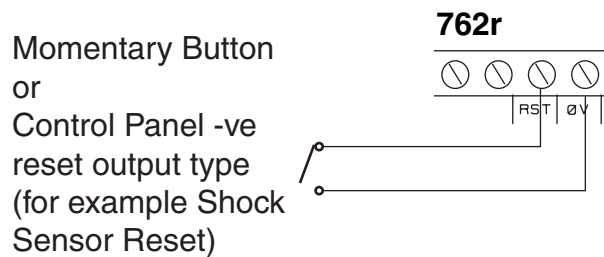


Figure 6. External Reset Connection.

When the user starts the control panel exit timer the Detector Reset output grounds the reset input. This clears the latched channels.

The above operation may vary from panel to panel. You may need to select an alternative output or output type.

5. PROGRAMMING

In order to put the 762r to use, you must first program the unit. Programming involves making the receiver "learn" the identity of the transmitters that you wish to communicate with the receiver, and if necessary allocating specific operating modes to the learned transmitters. The rest of this chapter tells you how to do this.

PROGRAMMING CONTROLS

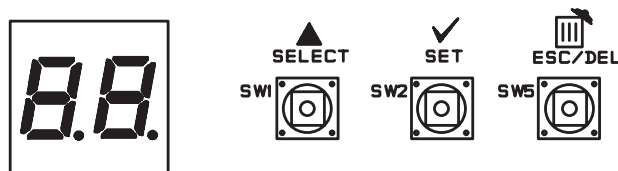


Figure 7. Programming Controls and Display

The main PCB contains a two digit LED display and three buttons that act as the programming controls. The user interface provides a menu of commands, each indicated by a two letter code on the display (see "Menu Structure" on page 22). Once you have entered programming mode, you select the appropriate command by pressing Select repeatedly. Pressing Set confirms that you wish to use that command. You then go on to select options within the command by pressing a combination of Select to chose the option and Set to confirm your choice.

When used with the correct command the Esc/Del button allows you to delete learned transmitters.

ENTERING PROGRAMMING

To enter programming for the first time (while installing a new unit):

1. Connect a suitable 12VDC power supply to the DC supply in connector (see Figure 5).

The display shows the version number of the software as two alternating two-digit numbers, for example: 01 00

2. Press Select.

The display shows the first command in the menu: Ln

To enter programming while the unit is operating:

1. Open the 762r case lid.

Note: If the unit is connected to an alarm control panel the tamper alarm may sound.

The display is blank.

2. Press Select.

The display shows the first command in the menu: Ln

LEAVING PROGRAMMING

1. Press Set until the display shows one of the two letter commands.

2. Press Select until the display shows the command "GO".

You should see: GO

3. Press Set.

The display shows: LL

You should hear a single beep repeated slowly.

4. Close the lid.

The unit is now out of programming mode.

Note: There is a deliberate delay of four seconds before the receiver leaves programming mode. This is to make sure that you have time to close the lid properly and screw it down firmly.

RESTORING DEFAULTS

If you wish to remove all the programming from a unit (for example to reuse an old unit in a new installation) then:

1. Enter programming mode.
2. Press Select until the display shows $\square L$.
3. Press Set until the display shows $[\quad]$.
4. Press Reset (//). (You may need to use a small blunt probe or similar to reach the switch.)

The unit is now ready to program.

Defaults

When supplied from the factory the receiver has the following default program:

Transmitters	None
Sounder ($\square r$)	Disabled
Infra red learn ($l r$)	Enabled
Supervision ($\square P$)	29
Jamming detection ($\square F$)	Enabled

MENU STRUCTURE

The available commands are arranged in a simple menu. To move between commands press Select. The list below shows the commands and their function.

Command Function

Ln	(Ln) Manually learn a transmitter to a specific channel and device number.
LA	(LA) Automatically learn a transmitter to the next available free channel and device number
dL	(dL) Delete learned transmitters. (You can delete all transmitters at once, or selected transmitters.)
SG	(SG) Measure and record the signal strength of a specific transmitter.
SA	(SA) Measure and record the signal strength of all learned transmitters.
OP	(OP) Program output to specific modes.
Sn	(Sn) Sounder enable/disable.
Ir	(Ir) Infra-red learn enable/disable.
SP	(SP) Supervision enable/disable/time.
JA	(JA) Jamming detection enable/disable.
??	(??) Query set up. Use this command to show what type of transmitters the receiver has learned for each channel. (See Table 2 on page 35.)
GO	(GO) Leave programming mode.

LEARNING DETECTORS

The 762r learns the identity of individual transmitters and allocates them to specific channels. The unit can learn up to four transmitters per channel, giving a potential maximum of 8 transmitters per 762r. However, since some types of transmitter broadcast on more than one channel, an installation may not achieve this maximum number. Cooper Security Ltd recommend that as far as possible you do not learn more than one transmitter to each channel.

Each transmitter has a default mode that the receiver uses when it first learns the transmitter. (See Table 1 on the next page.) You may change the mode used for individual channels with the OP command (see page 29). Cooper Security Ltd recommend that you use the default transmitter mode wherever possible.

Transmitter Type	Ch. A Alarm	Ch. B Tamper	Transmitter
Door Contact	2	2	734r, 735r, 739r
PIR	1	2	714r, 715r
Pendant	1	-	701r, 702r
Fire/Smoke	2	2	719r
Technical	2	2	734r, 735r, 739r
Telecommand	1	1	705r
PA	1	2	726r, 706r
Four Channel	2	2	703r

Table 1. Default Modes For Transmitters

When programming, you can either allocate a transmitter to a specific channel (see "Manual Learning", or you can allow the receiver to select the next available free channel for you (see "Auto Learning").

The 762r can learn transmitters either by using the infra red light from the transmitter's activity LEDs, or from their radio signals. When delivered from the factory the 762r uses infra red learning. If you wish to use radio learning you must disable infra red learning, see page 32.

Manual Learning (Ln)

To learn a transmitter to a specific channel/device number:

1. Enter programming mode if the 762r is not already there.

The display shows: L n

Note: If the display shows some other command press Select until you see L n.

2. Press Set.

The display shows the first available channel number, for example: [1

3. Press Select repeatedly until the display shows the channel number you wish to use.

The display shows, for example: [2

The display flashes if there are no other devices on that channel. The display is steady if there are already devices on the channel.

The 762r will not show a channel number if it

has already learned the maximum number of devices to that channel.

4. Press Set.

The display shows [] and the channel number ([2] in the example), followed by "d - " and then "5 - " as the receiver scans for a new transmitter.

Note: If you are using Infra-Red learning then hold the transmitter's activity LED within 25mm of the Infra-Red Learn sensor.

5. Activate the tamper on the PIR or door contact transmitters. For other types of transmitter activate a channel.

The 762 gives a double "beep" and the display shows the device number allocated to the transmitter. If you are using radio learn the display alternates with the transmitter's signal strength, for example: d2 57

(If you are using Infra-red learn the display shows a signal strength reading of zero.)

Note: If the display shows "--" and you hear a low tone from the sounder, then the 762r has already learned that transmitter.

If you hear a double beep followed by a low tone then the 762 has insufficient channels available for all the channels transmitted, but has allocated to the transmitter those that are available.

6. Press Esc/Del to go back to the command menu.

The display shows:

L n

Auto Learning (LA)

You may wish to learn several transmitters at once, allowing the 762r to allocate them to free channels automatically. To do this:

1. Enter programming mode if the 762r is not already there.

The display shows:

L n

2. Press Select until the display shows the Learn Automatic command.

The display shows:

LA

3. Press Set.

The display alternates between the characters "[- " "d - " and "5 - "

This indicates that the receiver is scanning for signals from new transmitters.

Note: If you are using Infra-Red learning then hold the transmitter's activity LED within 25mm of the Infra-Red Learn sensor.

4. Activate each of the transmitters that you wish the receiver to learn (use the tamper on PIRs and door contacts).

The display shows the channel and device number allocated to the transmitter. If you are using radio learn the display alternates with the transmitter's signal strength, for example:

[2 d2 55

5. Press Esc/Del when you have completed learning all the transmitters.

The display shows:

LA

DELETING DETECTORS (DL)

You may wish to delete transmitters from the receiver, either in order to take them out of service, or to allocate them to other receivers or channels.

Deleting Selected Transmitters

To delete a selected transmitter:

1. Enter programming mode if the 762r is not already there.

The display shows:

Ln

2. Press Select until the display shows the Delete command.

The display shows:

dL

3. Press Set.

The display shows the first channel number: [1

4. Press Select until the display shows a channel allocated to the transmitter you wish to delete.

The display shows, for example:

[2

5. Press Set.

The display shows the first device number on that channel:

d 1

6. Press Select until the display shows the device number of the detector you wish to delete.

The display shows, for example:

d4

7. Press and hold Esc/Del for four seconds.

The sounder gives a double "beep".

The display shows:

dL

The receiver removes all records of the transmitter from each channel that the transmitter occupies. You do not have to delete the transmitter from each channel in turn.

Clearing a Channel

To clear all transmitters from a channel:

1. Enter programming mode if the 762r is not already there.

The display shows:

L n

2. Press Select until the display shows the Delete command.

The display shows:

dL

3. Press Set.

The display shows the first channel number:

[1

4. Press Select until the display shows a channel allocated to the transmitter(s) you wish to delete.

The display shows, for example:

[2

5. Press and hold Esc/Del for four seconds.

The sounder gives a double "beep".

The display shows:

dL

The receiver clears the selected channel, but retains records of transmitters on other channels. For example, if you clear a channel occupied by the tamper zone of a PIR, then the channel

holding the alarm zone of the PIR continues to operate.

PROGRAMMING CHANNELS (OP)

Cooper Security Ltd recommend that you use the modes that the 762r assigns to each transmitter by default during learning. However, if you have an application that needs to use some other mode, then you can change modes for a channel as follows:

1. Enter programming mode if the 762r is not already there.

The display shows: Ln

2. Press Select until the display shows the Output Mode command OP.

The display shows: OP

3. Press Set.

The display shows the first channel number: [1

4. Press Select until the display shows the channel you wish to change.

The display shows, for example: [2

5. Press Set.

The display shows the channel's current mode, for example: n5

6. Press Select repeatedly until the display shows the mode you wish to apply to the channel.

The display shows, for example: n6

7. Press Set.

The sounder gives a double "beep":

The display shows:

OP

Modes

1 – MOMENTARY

The receiver switches the channel LED and relay ON for approximately four seconds when it receives an ACTIVE signal from the transmitter. The receiver ignores RESTORE signals.

2 – LATCHED

The receiver switches the channel LED and relay ON when it receives an ACTIVE signal from the transmitter and OFF when it receives a RESTORE signal.

3 – MANUAL RESET

The receiver switches the channel LED and relay ON when it receives an ACTIVE signal from the transmitter. The receiver ignores RESTORE signals and a user must reset the receiver to switch the channel OFF. The user can carry out the reset by applying 0V to the reset input (for example from an attached alarm control panel).

4 – TOGGLE

The receiver switches the channel LED and relay ON when it receives an ACTIVE signal from the transmitter and OFF when it receives the next ACTIVE signal.

5 – (NOT USED IN 762R)

6 – OUTPUT MODULE MODE

Use this mode when learning transmissions from the 7500r Domestic Radio Control Unit.

ENABLING/DISABLING THE SOUNDER (SN)

If you wish to hear an audible signal whenever the receiver picks up a transmission from one the transmitters that it has learned then you must enable the sounder as follows:

1. Enter programming mode if the 762r is not already there.

The display shows:

L n

2. Press Select until the display shows the Sounder command.

The display shows:

S n

3. Press Set.

The display shows \bar{E} if the sounder is enabled, or \bar{d} if the sounder is disabled.

4. Press Select until the display shows the option you require.

5. Press Set.

The display shows:

S n

The sounder always gives key press tones and confirm tones while you are programming it.

INFRA RED LEARN (IR)

If you wish to install the receiver in an environment where there are already many transmitters operating then Cooper Security Ltd recommend that you use infra red learning.

However, if you wish to use radio learning then you must disable infra red learning.

To disable infra-red learn:

1. Enter programming mode if the 762r is not already there.

The display shows: L n

2. Press Select until the display shows the Infra Red Learn command.

The display shows: lr

3. Press Set.

The display shows \bar{E} if infra read learning is enabled, or \bar{L} if infra red learning is disabled (radio learning enabled).

4. Press Select until the display shows the option you require.

5. Press Set.

The display shows: lr

NOTE: If you disable infra-red learn then the receiver enables radio learn. If you enable infra-red learn then the receiver disables radio learn.

SUPERVISION (SP)

If you wish the receiver to signal that it can no longer detect a transmitter it has learned, then you must enable Supervision. With Supervision enabled, if the 762r does not receive anything from a transmitter within a set time, the receiver lights the Supervision LED and operates the Supervision relay.

The Supervision settings in the 762r are designed to match those of the 703r Four Channel Transmitter (see "703r Installation Manual"). If you set Supervision enable on the 703r to "04" then set Supervision on the 762r to "04" as well. Similarly, if the 703r is set to "29" then set the 762r to "29".

If you are using some other transmitter then the "04" setting on the 762r corresponds to approximately 15 minutes, while the "29" setting corresponds to approximately 120 minutes.

To enable Supervision:

1. Enter programming mode if the 762r is not already there.

The display shows:

Ln

2. Press Select until the display shows the Supervision command.

The display shows:

SP

3. Press Set.

The display shows \square if Supervision is disabled.

4. Press Select until the display shows the option you require (either 04 or 29).

The display shows (for example): 04

5. Press Set.

The display shows: 5P

JAMMING (JA)

The 762r can signal attempts to interfere with signals from the transmitters it has learned. If the receiver detects jamming then it lights the Jamming LED and operates the Jamming relay.

To enable Jamming detection:

1. Enter programming mode if the receiver is not already there.

The display shows: Ln

2. Press Select until the display shows the Jamming command.

The display shows: JA

3. Press Set.

The display shows E if the jamming detection is enabled, or 0 if jamming detection is disabled.

4. Press Select until the display shows the option you require.

5. Press Set.

The display shows: JA

QUERY (??)

If you wish to see what type of transmitter the receiver has allocated to a channel the you can use the Query command. The display shows a two digit code indicating the transmitter type as follows:

Code	Transmitter
00	Door Contact
01	PIR/Glass Break
02	Not used
03	Pendant
04	Fire/Smoke Detector
05	Reserved for future use.
06	Reserved for future use.
07	Reserved for future use.
08	Telecommand
09	Reserved for future use.
10	Control Unit
11	Reserved for future use.
12	Reserved for future use.
13	Reserved for future use.
14	PA
15	Not used
16	703r Four channel transmitter
17	Reserved for future use
18	705 two channel transmitter
19	706 two channel transmitter

Table 2. Transmitter Codes

To use the Query command:

1. Enter programming mode if the 768r is not already there.

The display shows:

L n

2. Press Select until the display shows: ꞖꞖ.

3. Press Set.

The display shows the first channel alternating with the transmitter code, for example:

[108.

If the channel has no transmitters the display shows:

[1 - -

4. Press Select to view the next channel.
5. Press Esc/Del to leave the Query command.

6. TESTING

You can measure signal strengths either for a selected single transmitter, or for all transmitters learned by the receiver.

SIGNAL STRENGTH FOR ONE DEVICE (SG)

1. Enter programming mode if the 762r is not already there.
The display shows: L n
2. Press Select until the display shows the Signal Individual command.
The display shows: SG
3. Press Set.
The display shows the first channel number: [1
4. Press Select until the display shows a channel allocated to the transmitter you wish to measure.
The display shows, for example: [2
5. Press Set.
The display shows the first device number on that channel: d 1
6. Press Select until the display shows the device number of the detector you wish to measure.
The display shows, for example: d 4
7. Press Set.
The 762r flashes the channel LEDs for that transmitter. All the other LEDs glow steadily.

8. Trigger the transmitter.

All channel LEDs glow steadily.

The display shows the device number alternating with the signal strength.

9. Press Esc/Del.

The display shows:

5G

SIGNAL STRENGTH FOR ALL DEVICES (SA)

1. Enter programming mode if the 762r is not already there.

The display shows:

Ln

2. Press Select until the display shows the Signal All command.

The display shows:

SA

3. Press Set.

The channel LEDs for unused channels glow steadily. The LEDs for channels with transmitters assigned flash.

4. Trigger all the transmitters learned by the receiver.

During the test once you have triggered all the transmitters belonging to a channel then the channel's LED glows steadily. By the end of the test all channel LEDs should be glowing steadily and the receiver will beep to signal that it has detected all transmitters. If any channel LEDs flash then the receiver has not been able to detect one or more transmitters

belonging to that channel and you will not hear a beep.

The display shows the signal strength of the first device on the first channel,

for example:

[1 d 1 59

5. Press Select.

The display shows the signal strength of the next device number on that channel.

6. Continue pressing Select.

The display shows the signal strength of all the other transmitters, in channel/device number order.

7. Press Esc/Del.

The display shows:

5A

EC Declaration of Conformity

Cooper Security Ltd.
Security House
Vantage Point Business Village
Mitcheldean
Gloucestershire
GL17 0SZ

Declares that the products described hereinafter as:

762r

manufactured by Cooper Security Ltd, fully complies with the requirements of the following European Directives:

1995/5/EC

(Radio & Telecommunications Terminal Equipment Directive):

In accordance with the standards set out in:


EN 300 220-3

EN 50131-1

EN 50131-5-3

EN 60950

Signed



Stewart Taylor, Technical Director
Date: 15 February 2004

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