Pulse
rada
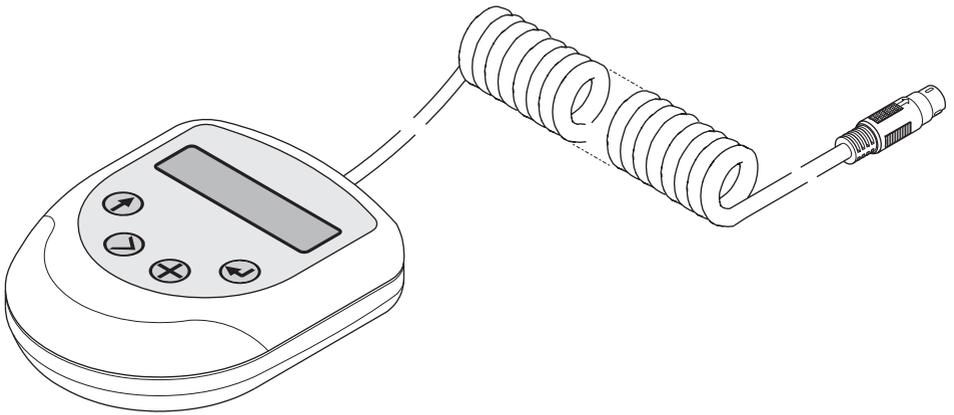
HAND HELD PROGRAMMER

PRODUCT MANUAL

IMPORTANT

Installer: This manual is the property of the customer and must be retained with the product for maintenance and operational purposes.

TABLE OF CONTENTS

page

INTRODUCTION

The Rada Pulse range of electronic products combine together to produce a controlled washroom environment offering a high degree of energy and water conservation.

DESCRIPTION

The Rada Pulse Hand Held Programmer is a hand held unit which enables you to program the Rada Pulse Control Box. The programmer has an extendable lead which plugs into a socket in the top of the Control Box.

The programmer has a two line (alpha numeric) backlit display and push buttons which allow the user to navigate through the menu choices and set the configuration data. This will allow the user to set the parameters such as activation time, delay time and post flush waiting time etc. for each outlet.

The controller is multilingual and the user can select the appropriate language via the menu system.
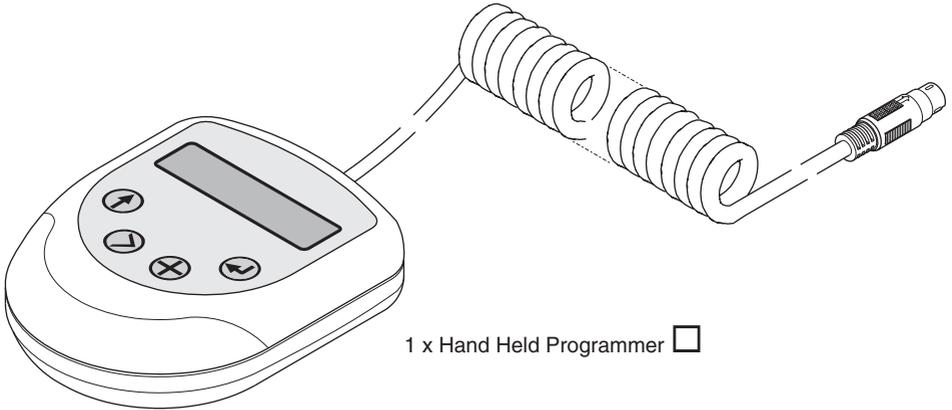
SPECIFICATION

Rada Pulse Hand Held Controller

Material - ABS plastic.

Operating voltage - 12V D.C (power supplied from the Rada Pulse Control Box).

PACK CONTENTS

☑ Tick the appropriate boxes to familiarize yourself with the part names and to confirm that the parts are included.
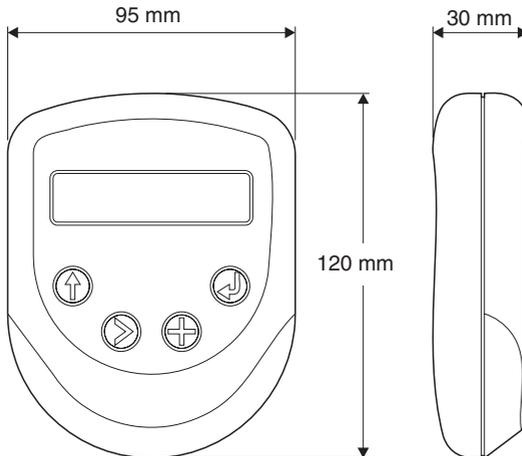
1. Rada Pulse Hand Held Programmer

1 x Hand Held Programmer ☐

2. Documentation
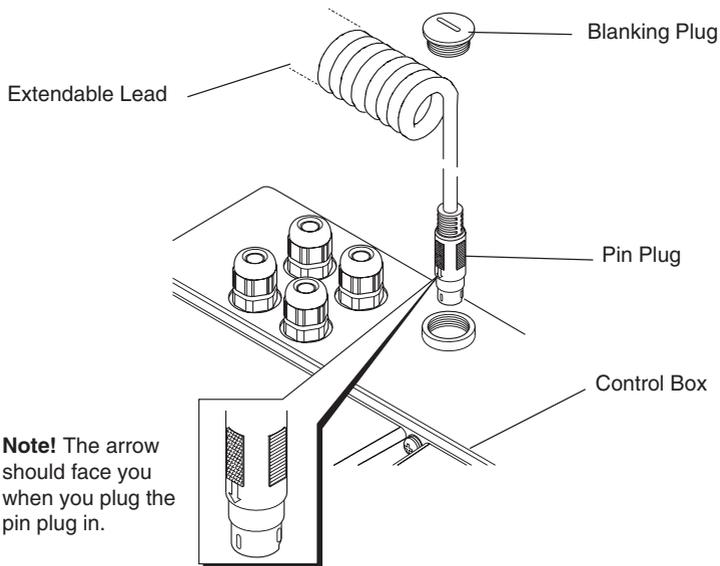
1 x Product Manual ☐

DIMENSIONS

95 mm

30 mm

120 mm

INSTALLATION

Rada Pulse Hand Held Programmer

1. Remove the blanking plug from the top of the Rada Pulse Control Box.

2. Connect the pin plug on the extendable lead to the connection point (care must be taken not to force the pin plug into the socket).

3. From a suitable position, program the control box (refer to **OPERATION**).

Connection of the Hand Held Programmer to the Control Box

MAINTENANCE

Clean surface with damp cloth, or with mild detergents or soap solutions.

Warning! Many household and industrial cleaning products contain mild abrasives and chemical concentrates. These products should not be used on polished or chrome plated surfaces.

OPERATION

The control unit has a two line (alpha numeric) backlit display and four push buttons allow the user to navigate through the menu choices and set the configuration data.

The four control unit push buttons are as follows:

Two Line Alpha Numeric Display

```
Main menu
Program options>
```

Back
Pressing the back key at any time during the procedure will take you back to the previous menu.

Select
Pressing the select key will enable you to change your option, if more than one option is available.

Enter
Pressing the enter key will select the menu option and save the settings.

Increase
Pressing the increase key will increase the time period in increments of seconds, minutes or hours depending on the option selected.

With the hand held programmer plugged in to the control box you can set the following options.

1. **Language** - The hand held controller is multilingual and you have the option to set the following languages; Deutsch, Netherlands, Francais, Svenska, Novege, Espanol, Polski, Chechoslovakia and English.

2. **System Information** - By selecting system information you can get an overview of the system and find out what auxiliary functions are active or not active, what channels are active or not active and whether or not there are any errors in the system (e.g. valves or channels).

3. **Program a Channel** - Using this function you can program channels 1 to 10 to one of the following; W.C, washbasin *****, shower, urinal or not in use. Other options available when you get into the programming sequence are; flush times, duty flushes, overrun times, flow times etc. All of the programming is explained in greater detail on the flow charts that follow.

    Note! * For Bathfill applications use the washbasin function.

4. **Read a Channel and Write a Channel** - With this facility you can copy what you have programmed into one channel and write it to another channel.

    For example; If you have programmed channel 1 as a shower and set all of the other options and you wish to copy all of this information to another channel, say channel 3, then this function is useful.

5. **Program an Auxiliary** - Using this function you can program the auxiliary functions of the control unit such as fan, light and disinfection.

    WARNING!

    High water temperatures used during the disinfection process can be discharged from the shower heads or taps during this process. Suitable safety precautions MUST be taken to ensure that persons are not exposed to the risk of scolding.

6. **Read the Unit and Write the Unit** - With this facility you can copy what you have programmed into one control box and write it to another control box. This function is particularly useful where more that one control box is installed.

    Note! If while operating the controller the display shows "communication error", this indicates a connection problem either on the control box connector, the pin plug or the hand held controller.

To Select Language

Note! ⬆ **Pressing the back key at any time during the procedure will take you back to the previous menu.**

Main Menu Screen

| Main Menu Language | > | ❯ | **Pressing the > key will enable you to select 3 different options; Language, System info or Program options.** |

↵

| Language English | > | ❯ | **Pressing the > key will enable you to select one of the following other languages: Deutsch, Netherlands, Francais, Svenska, Novege, Espanol, Polski, Chechoslovakia** |

↵

| Are you sure ? No | > | ❯ | Are you sure ? Yes | > |

↵

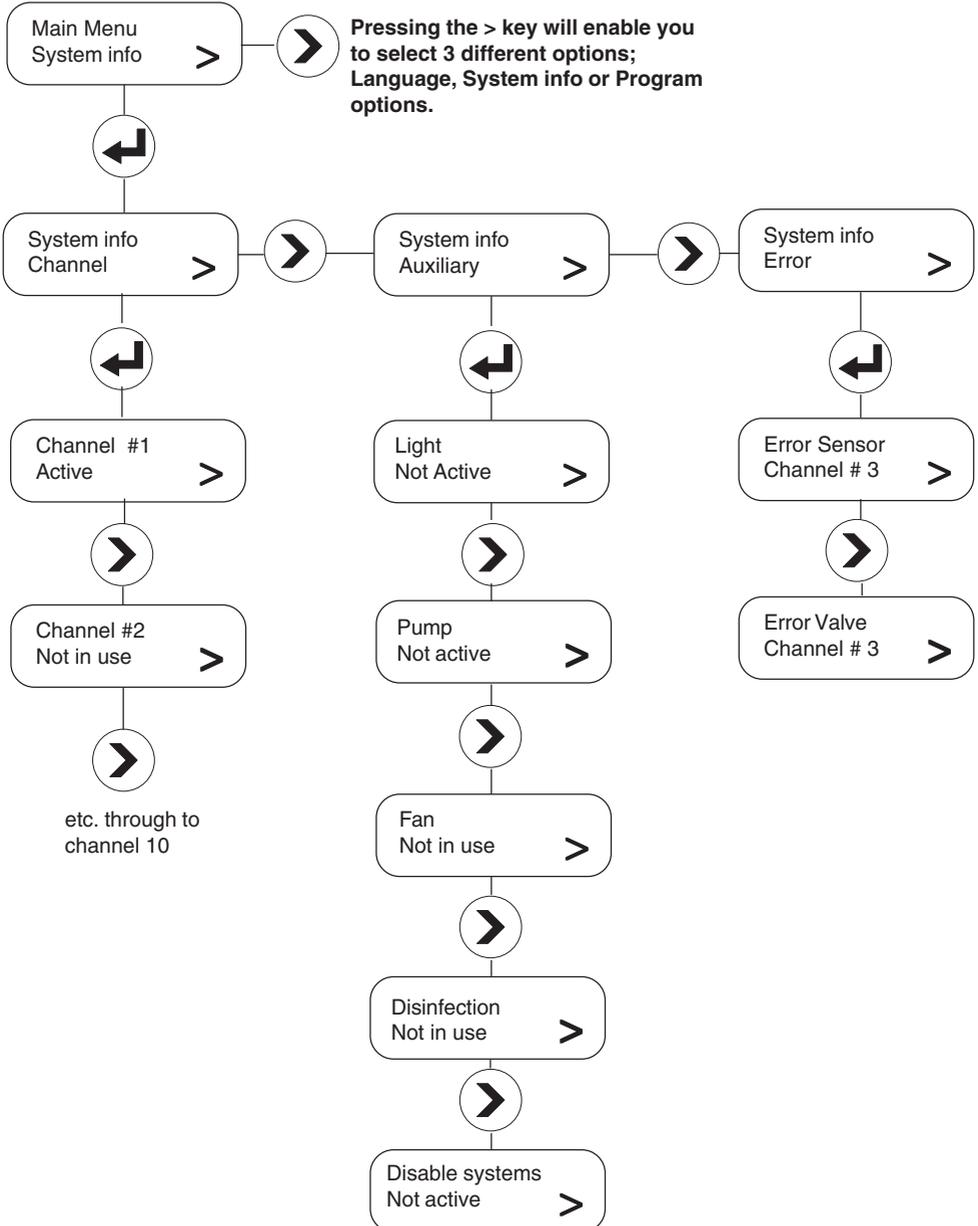| Main Menu Language | > |

Language Should
Now Be Selected

8
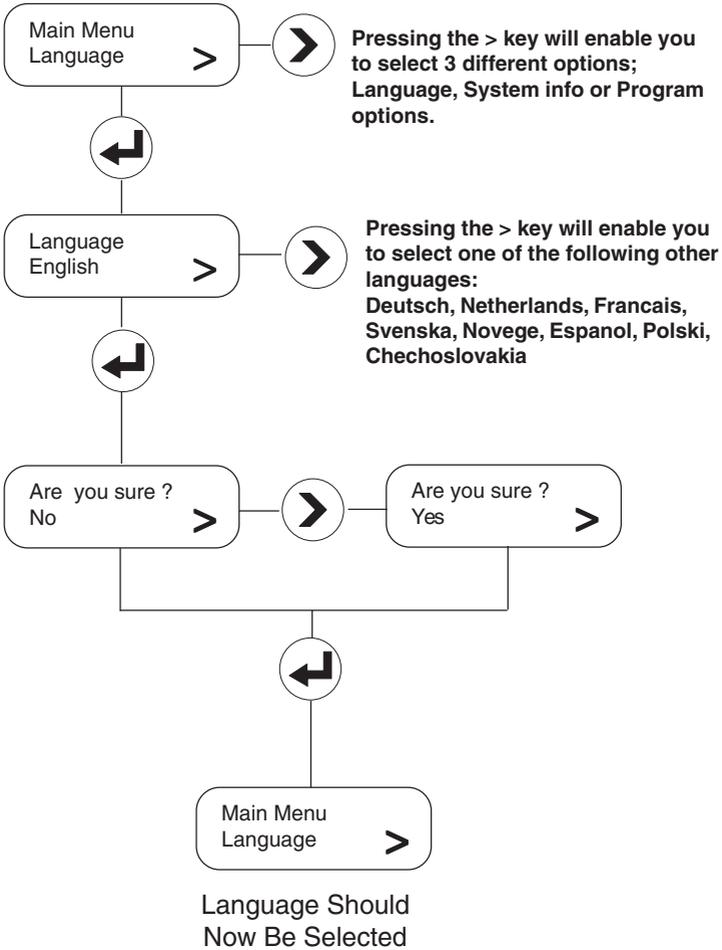
To Select System Information

Note! Pressing the back key at any time during the procedure will take you back to the previous menu.
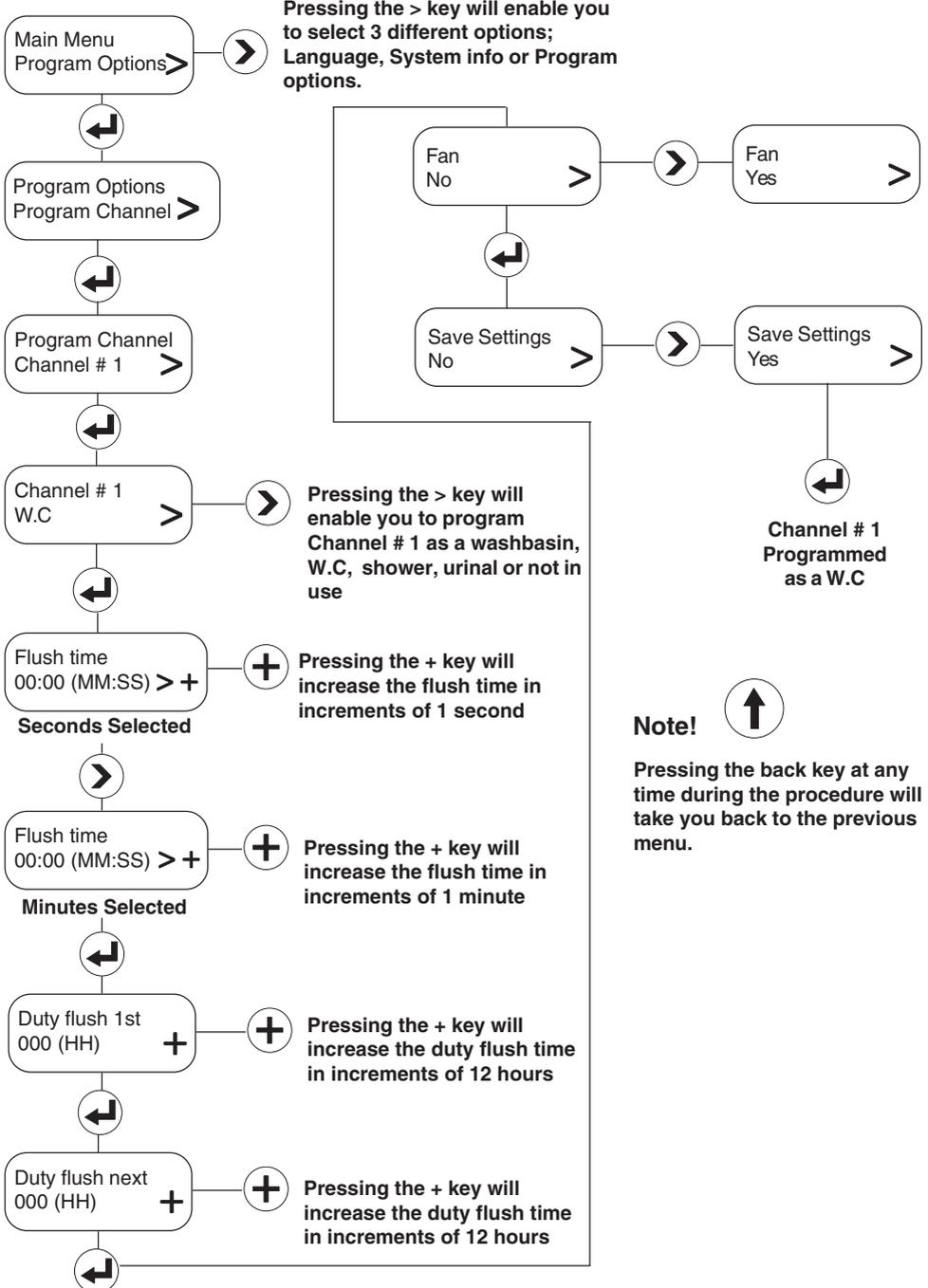
Main Menu Screen

Main Menu
System info >

Pressing the > key will enable you to select 3 different options; Language, System info or Program options.

System info
Channel >

System info
Auxiliary >

System info
Error >

Channel #1
Active >

Light
Not Active >

Error Sensor
Channel # 3 >

Channel #2
Not in use >

Pump
Not active >

Error Valve
Channel # 3 >

etc. through to
channel 10

Fan
Not in use >

Disinfection
Not in use >

Disable systems
Not active >

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To Program a Channel for a W.C

Main Menu Screen

Main Menu
Program Options >

Pressing the > key will enable you to select 3 different options; Language, System info or Program options.

Program Options
Program Channel >

Program Channel
Channel # 1 >

Channel # 1
W.C >

Pressing the > key will enable you to program Channel # 1 as a washbasin, W.C, shower, urinal or not in use

Flush time
00:00 (MM:SS) > +

Seconds Selected

Pressing the + key will increase the flush time in increments of 1 second

Flush time
00:00 (MM:SS) > +

Minutes Selected

Pressing the + key will increase the flush time in increments of 1 minute

Duty flush 1st
000 (HH) +

Pressing the + key will increase the duty flush time in increments of 12 hours

Duty flush next
000 (HH) +

Pressing the + key will increase the duty flush time in increments of 12 hours

Fan
No >

Fan
Yes >

Save Settings
No >

Save Settings
Yes >

**Channel # 1
Programmed
as a W.C**

Note!

Pressing the back key at any time during the procedure will take you back to the previous menu.

To Program a Channel for a Washbasin

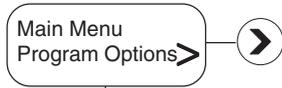Main Menu Screen

Main Menu
Program Options >

Pressing the > key will enable you to select 3 different options; Language, System info or Program options.

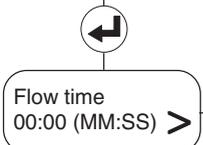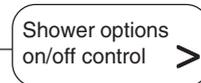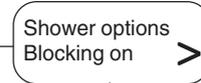Program Options
Program Channel >

Program Channel
Channel # 1 >

Channel # 1
washbasin >

Pressing the > key will enable you to program Channel # 1 as a washbasin, W.C, shower, urinal or not in use

Type of washb.
Automatic >

Type of washb.
Manual >

Overrun time
00:00 (MM:SS) > +

Seconds Selected

Flow time
00:00 (MM:SS) > +

Seconds Selected

Overrun time
00:00 (MM:SS) > +

Minutes Selected

Flow time
00:00 (MM:SS) > +

Minutes Selected

Disinfection
Yes >

Disinfection
No >

Pump
No >

Pump
Yes >

Save Settings
No >

Save Settings
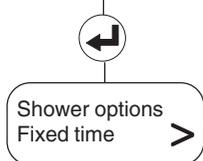Yes >

**Channel # 1
Programmed
as a Washbasin**

Notes !

Pressing the back key at any time during the procedure will take you back to the previous menu.

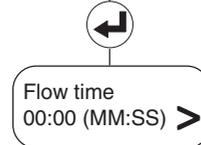**Pressing the + key will increase the overrun time or flow time in increments of 1 second or 1 minute**

Make sure that you record the position of the programmed sensor on the record sheet on the reverse side of the cover

To Program a Channel for a Shower

Main Menu Screen

Main Menu
Program Options >

Pressing the > key will enable you to select 3 different options; Language, System info or Program options.

↵

Program Options
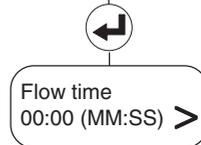Program Channel >

↵

Program Channel
Channel # 1 >

↵

Channel # 1
Shower >

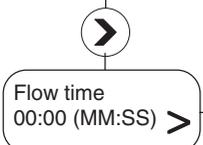**Pressing the > key will enable you to program Channel # 1 as a washbasin, W.C, shower, urinal or not in use**

↵

Notes !

↑ **Pressing the back key at any time during the procedure will take you back to the previous menu.**

+ **Pressing the + key will increase the flow time in increments of 1 second or 1 minute**

Shower options
Fixed time >

Shower options
Blocking on >

Shower options
on/off control >

↵

↵

↵

Flow time
00:00 (MM:SS) > +

Seconds Selected

Flow time
00:00 (MM:SS) > +

Seconds Selected

Flow time
00:00 (MM:SS) > +

Seconds Selected

Flow time
00:00 (MM:SS) > +

Minutes Selected

Flow time
00:00 (MM:SS) > +

Minutes Selected

Flow time
00:00 (MM:SS) > +

Minutes Selected

↵

↵

↵

(A)

(B)

(C)

12

(A) **(B)** **(C)**

Blocking time
00:00 (MM:SS) **>** **+**

Seconds Selected

❯

Blocking time
00:00 (MM:SS) **>** **+**

Minutes Selected

↵

Fan
No **>** ❯ Fan
Yes **>**

↵

Disinfection
No **>** ❯ Disinfection
Yes **>**

↵

Pump
No **>** ❯ Pump
Yes **>**

↵

Save Settings
No **>** ❯ Save Settings
Yes **>**

↵ **Channel # 1
Programmed
as a Shower**

13
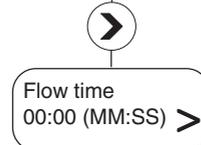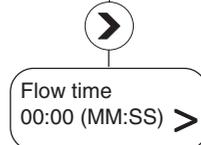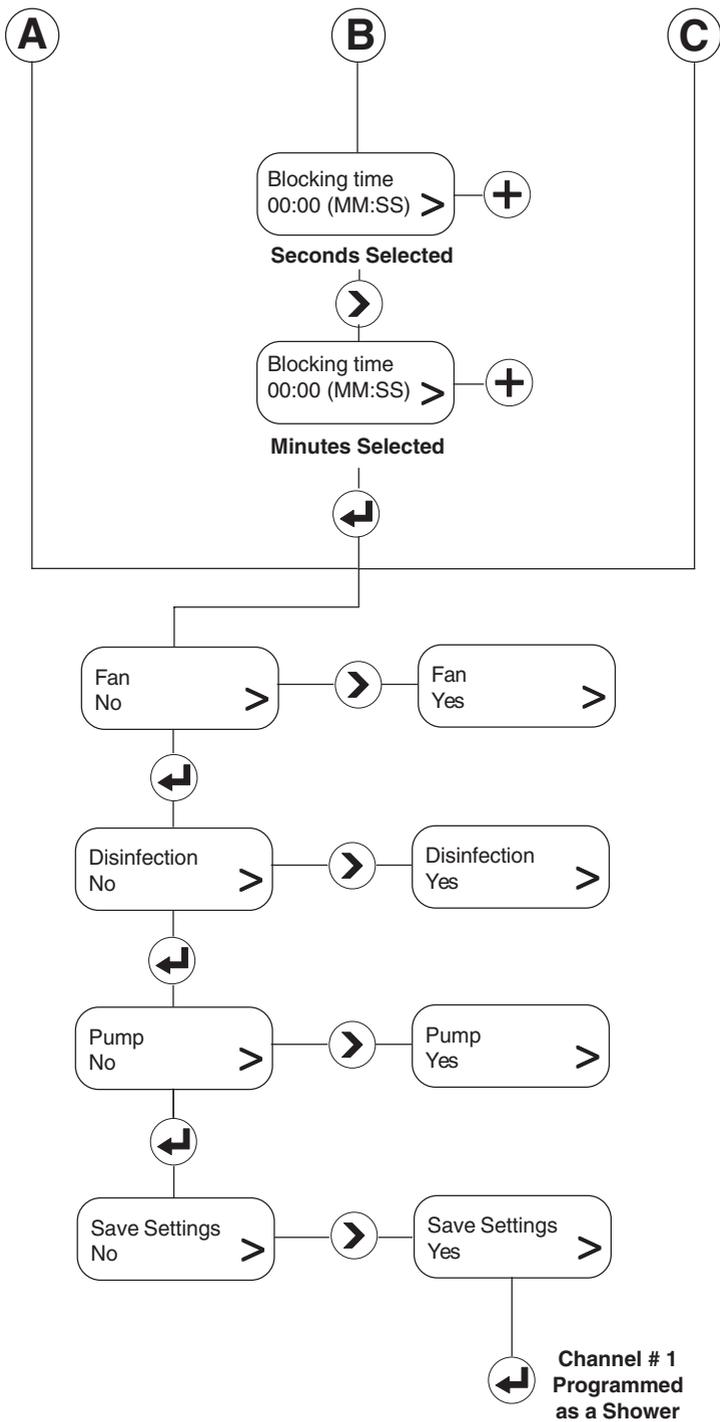
To Program a Channel for a Urinal

Main Menu Screen

Main Menu
Program Options >

Pressing the > key will enable you to select 3 different options; Language, System info or Program options.

Program Options
Program Channel >

Program Channel
Channel # 1 >

Channel # 1
Urinal >

Pressing the > key will enable you to program Channel # 1 as a washbasin, W.C, shower, urinal or not in use
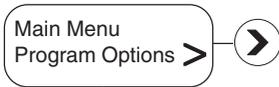
Notes !

Pressing the back key at any time during the procedure will take you back to the previous menu.

Pressing the + key will increase the flush delay time and flush time in increments of 1 second or 1 minute

Type of urinal
Group >

Type of urinal
Single auto. >

Type of urinal
Single manual >

Flush delay time
00:00 (MM:SS) > +

Seconds Selected

Preflush time
00 (SS) +

Flush delay time
00:00 (MM:SS) > +

Minutes Selected

Flush delay time
00:00 (MM:SS) > +

Seconds Selected

Flush delay time
00:00 (MM:SS) > +

Minutes Selected

A

B

C

14

A **B** **C**

Flush time
00:00 (MM:SS) **> +** **+**

Seconds Selected

>

Flush time
00:00 (MM:SS) **> +** **+**

Minutes Selected

↵

Duty flush 1st
000 (HH) **+** **+** **Pressing the + key will increase the duty flush time in increments of 12 hours**

↵

Duty flush next
000 (HH) **+** **+** **Pressing the + key will increase the duty flush time in increments of 12 hours**

↵

Save Settings
No **>** **>** Save Settings
Yes **>**

↵

**Channel
Programmed
as a Urinal**

To Program a Channel that is Not in Use

Main Menu Screen
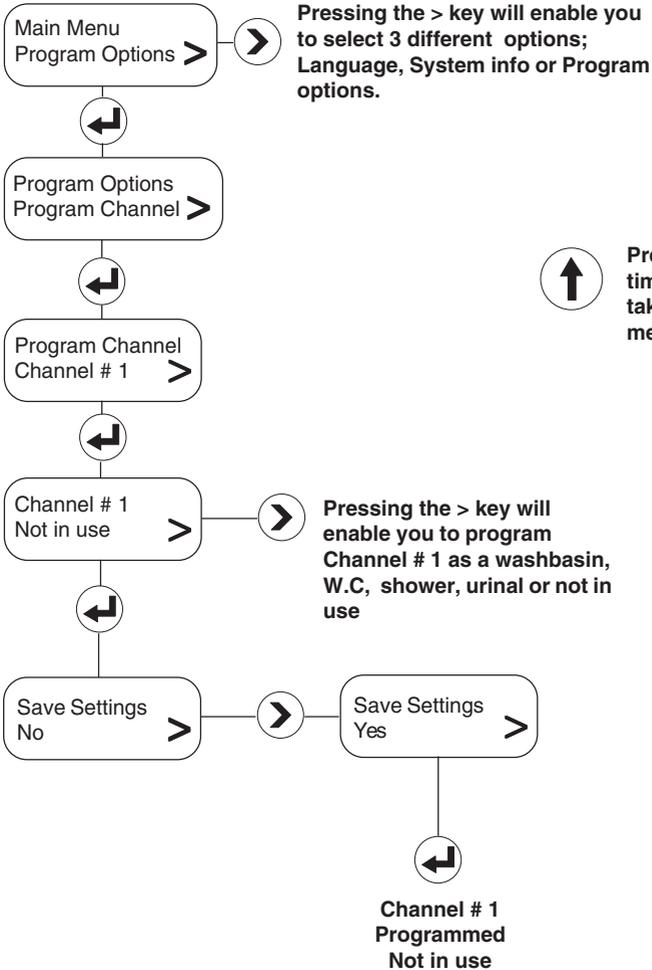
Main Menu
Program Options >

Pressing the > key will enable you to select 3 different options; Language, System info or Program options.

Program Options
Program Channel >

Notes !

Pressing the back key at any time during the procedure will take you back to the previous menu.

Program Channel
Channel # 1 >

Channel # 1
Not in use >

Pressing the > key will enable you to program Channel # 1 as a washbasin, W.C, shower, urinal or not in use

Save Settings
No >

Save Settings
Yes >

**Channel # 1
Programmed
Not in use**

To Read a Channel (Copy Program)

Main Menu Screen

Main Menu
Program Options **>**

Pressing the > key will enable you to select 3 different options; Language, System info or Program options.

Program Options
Read channel **>**

Read channel
Channel # 1 **>**

Notes !

Pressing the back key at any time during the procedure will take you back to the previous menu.

Are you sure
No **>**

Are you sure
Yes **>**
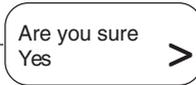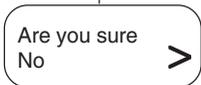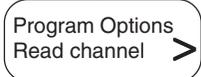
**Channel # 1
Copied**

To transfer the read data (above) to other channels follow the write channel procedure (below)

To Write a Channel

Main Menu Screen
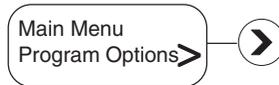
Main Menu
Program Options **>**

Pressing the > key will enable you to select Language, System info or Program options.

Program Options
Write channel **>**

Notes !

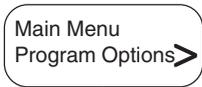**Pressing the back key at any time during the procedure will take you back to the previous menu.**

Write channel
Channel # 2 **>**

Copied program can be written into selected channel or channels
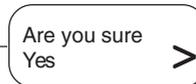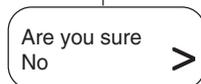
Are you sure
No **>**

Are you sure
Yes **>**

**Channel # 1
Copied**

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To Program an Auxiliary

Main Menu Screen

Main Menu
Program Options >

Pressing the > key will enable you to select Language, System info or Program options.

Program Options
Program aux. >

Program aux.
Fan >

Program aux.
Light >

Program aux.
Disinfection >

Run on time
00 (MM) +

Run on time
00 (MM) +

No. of outlets
01 (1-10) +

Disinf. type
open >

Disinf. type
closed >

Disinf. type
not in use >

Delay time
00 (MM) +

Flow time
00 (MM) +

A B C D

18

```
        A   B           C                          D

                        ↵

                Blocking time
                00 (MM)      +      +

                        ↵


    Save Settings             Save Settings
    No           >     >      Yes          >


                        ↵
                    Auxiliary
                    Programmed
```

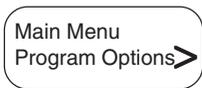**+** Pressing the + key will increase the run on time or delay time in increments of 1 minute

↑ Pressing the back key at any time during the procedure will take you back to the previous menu.

WARNING!

High water temperatures used during the disinfection process can be discharged from the shower heads or taps during this process. Suitable safety precautions MUST be taken to ensure that persons are not exposed to the risk of scolding.

To Read the Unit

Main Menu Screen

Main Menu
Program Options >

Pressing the > key will enable you
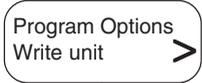to select Language, System info or
Program options.

Program Options
Read unit >

Notes !

Pressing the back key at any
time during the procedure will
take you back to the previous
menu.

Are you sure
No >

Are you sure
Yes >
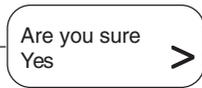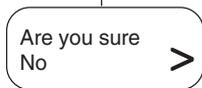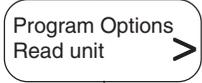
Unit Read

To Write the Unit

Main Menu Screen

Main Menu
Program Options >

Pressing the > key will enable you
to select Language, System info or
Program options.

Program Options
Write unit >

Notes !

Pressing the back key at any
time during the procedure will
take you back to the previous
menu.

Are you sure
No >

Are you sure
Yes >
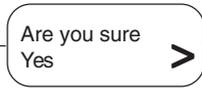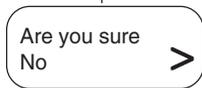
Unit Written

NOTES

NOTES

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28001 Madrid, **SPAIN**
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CUSTOMER CARE

Guarantee

This product is guaranteed against any defect of materials or workmanship for one year from the date of purchase, provided that the product has been installed correctly and used in accordance with the instructions supplied.

Any part found to be defective during the guarantee period will be replaced or repaired - at our option - without charge, provided that the product has been properly used and maintained.

Routine cleaning and maintenance should be carried out in accordance with the instructions supplied.

The product should not be modified or repaired except by a person authorised by Rada.

Your statutory rights are in no way affected by this guarantee.

After Sales Service - how we can help you

We have a network of fully trained staff ready to provide assistance, should you experience any difficulty operating your Rada equipment.

Spare Parts

All functional parts of Rada products are kept for up to ten years from the date of final manufacture.

If during that period, our stock of a particular part is exhausted we will, as an alternative, provide an equivalent new product or part at a price equating to the cost of repair to the old, bearing in mind the age of the product.

Customer Care Policy

If within a short time of installation the product does not function correctly, first check with the operation and maintenance advice provided in this Manual to see if the difficulty can be overcome.

Failing this, contact your installer to ensure that the product has been installed and commissioned in full accord with our detailed installation instructions.

If this does not resolve the difficulty, please ring your nearest Rada contact who will give every assistance and, if appropriate, arrange for the local Service Engineer or Agent to call on a mutually agreeable date.

Contact:

P3286/1 (K76A)