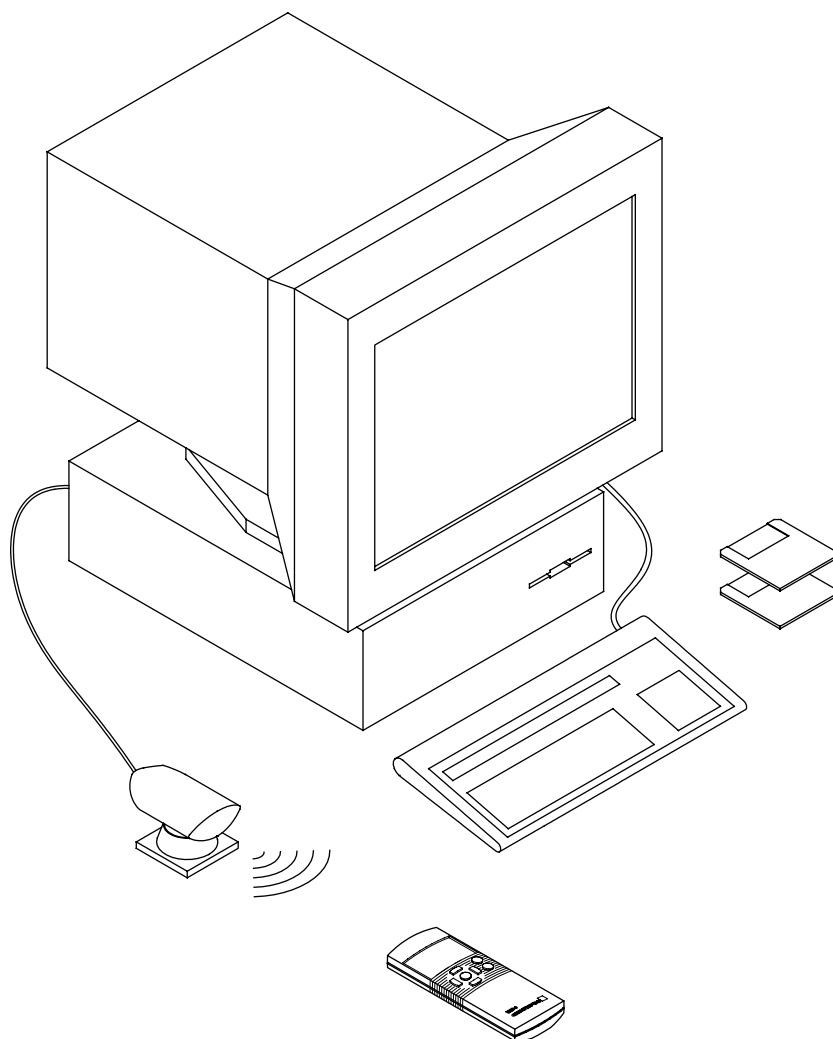


PC Tool

R100 Upgrade

Ⓒ GB Installation and operating instructions



TM00 7878 3100

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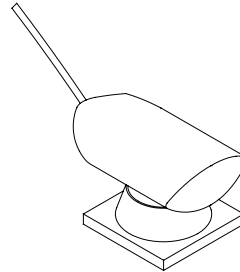


Introduction

PC Tool R100 Upgrade kit

The PC Tool R100 Upgrade kit you have just opened consists of:

- 1 floppy disk with PC Tool R100 Upgrade program for installation on your PC.
- 1 floppy disk with R100 Upgrade software.
- 1 IRmate 210 serial infrared adapter (see illustration) supplied in a separate box.



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Note: The two disks in the IRmate 210 packing are not to be used for the upgrading of R100.

- 1 registration card.
- These installation and operating instructions.

System requirements

The minimum system requirements of the PC Tool R100 Upgrade software are as follows:

- Windows 95/98/NT.
- Pentium 100 MHz or higher.
- 16 Mb RAM memory.
- 5 Mb hard disk space.
- Monitor resolution 800 x 600 or higher.
- Mouse or other pointing device.

Contents

These Installation and operating instructions cover the following topics:

Topic	See Page
Installing the upgrade program	4
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References

For further information, please refer to...

- R100 Operating instructions, V7 08 66 17 01 99.

Installing the upgrade program

Procedure

Use the following procedure when installing the PC Tool R100 Upgrade program on a PC running Windows 95/98/NT:

Step	Action
1	Place the PC Tool R100 Upgrade floppy disk, disk 1 of 1 in the floppy disk drive.
2	Select "Run..." in the Windows Start menu.
3	Write "a:\setup.exe" in the dialogue box and click [OK] . Note: From here the program will guide you through the installation.

When you have completed the installation, the PC Tool R100 Upgrade program can be run via the start menu:

Start | Programs | Grundfos PC Tools | PC Tool R100 Upgrade.

Hint

Use the following procedure if you want to make a shortcut to the PC Tool R100 Upgrade icon on your desktop:

Step	Action
1	Open the Windows explorer by right-clicking the Start icon and select 'Explore'.
2	Open the folder: Windows \ Start Menu \ Programs \ Grundfos PC Tools.
3	Right-click the PC Tool R100 Upgrade menu item and select 'Create Shortcut'.
4	Right-click the created shortcut and select 'Rename'.
5	Name it "PC Tool R100 Upgrade" and drag the item to the desktop with your mouse.

Upgrading the R100 software

Introduction

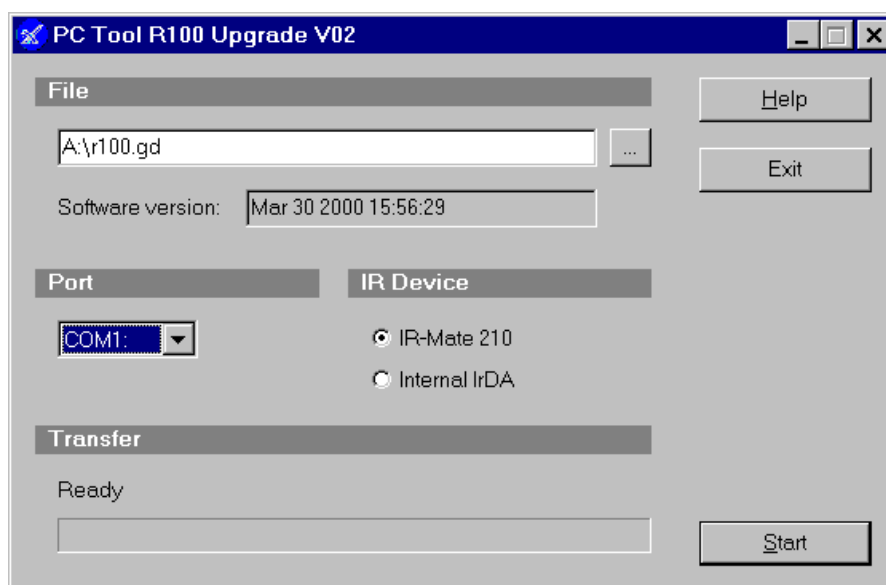
To upgrade the R100 software means to change the software in your R100 to another (normally a newer) version. The software consists of the file 'r100.gd' included on the disk labelled 'R100 Upgrade Software'. You can read the file when running the PC Tool Upgrade program. You can also use the Windows explorer to copy the r100.gd file to the folder:

Programs \ Grundfos \ PC Tool R100 Upgd.

The tool files will be stored in the folder and thus always be ready for use.

Procedure

To upgrade your R100 launch the PC Tool R100 Upgrade program. On the PC screen you will get the following dialogue box:



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Now follow the steps below:

Step	Action
1	Select the *.gd file with the software which you want to transfer to R100. In the dialogue box above it is assumed that the r100.gd file from the disk R100 Upgrade Software is used
2	Check that the setting of Port and IR Device is correct
3	Now bring R100 into Upgrade Mode by pressing all four arrow keys and the [OK] button simultaneously. If this has been done correctly, R100 will show its upgrading display with the headline 'R100 Update' and Status will be "Waiting".
4	Position R100 within a distance of 30 cm from your IR adapter pointing at it.
5	Click the [Start] button
6	During the upgrading process the R100 display will show the following display: <div data-bbox="873 1807 1141 1982"></div>

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6	<p>On the PC screen you will observe the following when upgrading takes place successfully:</p> <ul style="list-style-type: none"> • The text over the progress bar in the bottom of the dialogue box changes from 'Ready' to 'Initialising device...' then to 'Erasing...' (= the existing software in R100 is being erased). • The progress bar now indicates that the software is being transferred to R100. The text over the progress bar shows a running counter: 'Transferred xxx of yyy bytes (xx %)'. • When the upgrading has finished the text will for a few seconds show 'Transferred yyy of yyy bytes (100%)' then change to 'Ready'. <p>In the R100 display you will observe the following during a successful upgrading:</p> <ul style="list-style-type: none"> • The Status goes through the states 'Waiting', 'Erasing', 'Burning' and ends with 'Finished'. • A Kbytes-counter will count how many bytes have been received. • The bottom of the display will show an animation with a tumbling R100. This will freeze if communication is interrupted. When the transfer has finished the animation will be replaced by the text 'The End'.
7	<p>Now switch off R100. The next time R100 is switched on the new software will be active.</p> <p>Note: After an upgrade you will have to re-enter time, language, name and address into your R100.</p>

Fault finding

If the R100 upgrading procedure is not turn out successful it is very likely that the fault you experience is included in the table below.

Fault	Possible cause	Remedy
It is not possible to enter the R100 Upgrade Mode.	R100 may be older than version V20.	Check the R100 nameplate on its back that the version number is V20 or higher. Earlier versions cannot be upgraded.
The R100 Status line keeps displaying 'Waiting', i.e. does not change to 'Erasing'.	The PC tool cannot communicate with R100.	<u>IRmate 210</u> Check that IRmate 210 is properly connected to the correct serial port in your PC and that you select IRmate 210 and state the correct serial port number when you start the upgrading. <u>Internal IrDA port</u> Check that you select Internal IrDA port and state the correct serial port number when you start the upgrading. See the special paragraph below concerning the internal IrDA port!
	R100 may be defective.	Check the battery and check that R100 can communicate with a Grundfos product that supports R100 (e.g. UPE, E-pump, etc.).
The animation in the R100 display stops before the percent figure has reached 100%.	The communication between the PC tool and R100 has been disturbed.	Make sure that R100 is pointed towards the infrared eye (the IRmate 210 or the internal IrDA port) and that no objects are shading. Try to vary the distance between the eye and R100 to find an ideal position. This is usually between 10 - 50 cm.
'Comm. err.' occurs in the R100 Status line.		
The animation in the R100 display is suddenly replaced by the text 'Error' and two skulls.	The *.gd file used for upgrading of R100 is corrupted.	Use another file without faults.

Internal IrDA port

PC Tool R100 Upgrade program does not use Windows drivers for controlling of the IrDA port. It accesses the hardware directly. This can in many cases lead to insoluble conflicts with the Windows operating system.

Many different PC brands and types and several different Windows versions are on the market. It is therefore not possible to give detailed instructions as to what to do and when to give up. However, try to use the general guidelines below.

- If you run Windows NT or Windows 2000 an internal IrDA port will not work with PC Tool R100 Upgrade.
- If you run Windows 98 it is most likely that an internal IrDA port will not work with PC Tool R100 Upgrade. Make sure that the IrDA port is enabled and then try it out.
- If you run Windows 95 and Windows IrDA drivers are not installed, the IrDA port (when enabled) is expected to work with PC Tool R100 Upgrade.

If the Internal IrDA option does not work on your PC you will have to use the IRmate 210.

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