

RPC-44

Playback unit

Operating Manual

January 1999

REDPOST

Safety & Specification.

Intended use

The Redpost RPC-44 is suitable for use as a playback unit in conjunction with compatible P.U. Monitors also supplied by Redpost Electronic Products Ltd. It must not be used for any other purpose. Read these safety rules and this manual before operating the equipment.

Mains supply

The equipment operates from any AC mains supply between 110 and 240 nominal voltage. The mains inlet is via an IEC320 (EN 60320) type connector.

Safety.

- ◆ Use a mains cable with a 6 amp minimum rating. If possible use the mains cable supplied with the equipment. You should connect to a mains supply that provides a safety earth (ground) connection.
- ◆ There are no operator accessible fuses in this equipment.
- ◆ The equipment is for use indoors in a reasonably clean and dry environment. It is not waterproof.
- ◆ Do not operate where there is the possibility of the presence of explosive gases.
- ◆ If liquid is spilled onto the equipment disconnect it from the mains supply at once. Do not use it again until it has been checked by a competent service person.
- ◆ There are no operator controls inside the equipment. The equipment case should not be opened except by a competent service person.
- ◆ When you use the RPC-44 with any of the Redpost P.U. Monitors always do so in a well ventilated room. Do not allow smoking or naked flames nearby. The RPC-44 re-charges the battery in the P.U. Monitor and these are normal precautions when charging a lead/acid battery.

EMC compliance

To ensure continued conformity with European EMC directives you must use the connecting cables that were supplied with the equipment.

Specification.

Mains supply	90 - 264 V; 1A; 47 - 63Hz
Idle power	15 VA maximum (no PU monitor connected)
Earth leakage	0.6 mA at 264 VAC
Dimensions	depth x width x height 170 x 110 x 225 mm (excluding printer)
Weight	2 Kg (excluding printer)
Ambient temperature	5 to 35 °C
Ambient humidity	70 %RH maximum

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**Redpost Electronic Products Ltd.,
The Old Pumping Station,
Toft Road, Bourn,
Cambridge. England. CB3 7TT**

Tel. 01954 718001

Fax. 01954 (+44 1954) 718002

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1. Description.

The RPC-44 is designed to produce a printed copy of the results obtained by the PU Monitors of the 100 series. These include the PU Monitors type RPU-120, RPU-122 and RPU-120+ and also the Pressure and PU Monitor type RPT-122. The RPC-44 uses an external printer. Ink jet printers can be used in either monochrome (black & white) or colour and laser printers can be used in monochrome only.

Features

Regardless of the original language of the PU monitor the RPC-44 will print in a user selected language. (English, French, German or Spanish.) There is no control over PU calculation, measuring units, PU cut-off temperature etc. These are all set by the PU monitor used. Each print out is given a unique run identity number.

The printed information can be reduced to a single page giving calculated results and a low resolution graph. If required, a high resolution graph of the recorded data can be added on a second page and as another option all the recorded data can be listed on a third page.

The RPC-44 works on any mains supply between 90 and 260 volts AC.

Controls

The controls are simple; just 4 push buttons, each with a small red indicator lamp. The last printing option selected is retained even when the power is disconnected. Various sounds are also used to indicate when functions have been selected.

Battery Charging

The RPC-44 will charge the battery in the PU monitor and it uses a "fuel-gauge" light bar indicator to show the approximate amount of charge inside the battery and when it is ready for use.

Case

The RPC-44 is housed in a custom designed, strong, fire retarding ABS plastic case. An internal metal chassis adds strength and improves access for service.

The instrument is not classed as waterproof but the case and the control buttons are sealed. The back of the case is recessed by 20 mm to give the connectors some protection from water splashes. The top of the case forms a carrying handle.

Printing

The traces of a dual channel monitor are clearly identified on the high resolution graph by lines of different style (dotted, dashed etc.). All pages are printed in a common type style and in "landscape" format with a margin for hole punching for easy storage.

Colour printing is possible with the RPC-44 when using the correct type of printer. This allows the traces of the high resolution graph to be identified by colour rather than line style.

The RPC-44 will operate with printer types from Canon, Hewlett Packard and Epson. This selection gives good coverage of the majority of printer types. Printers from other manufacturers will normally be able to "emulate" at least one of our selected printers.

Printers and paper.

Printers

The RPC-44 can be used with a variety of ink-jet and laser printers from different manufacturers. The list of possible types can be printed out on any printer you connect when you start the configuration procedure.

The printer should be used in the default mode as supplied and requires only the paper guide to be set for the size of paper you are using. There are no other settings that require adjustment.

Don't switch the printer on until you have connected the data cable to both the printer and the RPC-44. Connecting the data cable with the printer switched on can cause problems.

Ink-Jet printers. Unlike a printer that uses a ribbon, the ink cartridge does not fade but stops suddenly when the ink is used up. You should always have a spare cartridge so that you can continue printing. Do not remove the ink cartridge from its packaging until you are ready to install and use it.

Never disconnect the power from the printer or the RPC-44 while the printer is actually printing. This may leave the print head away from its home position where the ink cartridge will dry out. In the correct home position the ink cartridge is capped to prevent any problems. If you switch the printer off always allow at least 15 seconds before switching it on again.

Canon BJ-10sx. Always have the inner cover closed and the paper release lever closed when printing. Set the DIP switches as shown on the configuration choice list.

Canon BJ-200. Always use the settings for normal paper. This is the left setting of the lever above the print head and the rear setting of the lever on the sheet feeder. Set the DIP switches as shown on the configuration choice list.

Canon BJC-210, 240, 250 etc. series. Always use the settings for normal paper. This is the left setting of the lever above the print head.

Hewlett Packard Desk-Jet series. Don't open the cover while printing. Fit both colour and black ink cartridges even if you are only printing in monochrome.

Laser printers. The printer may take several minutes to warm up and prepare the image before it prints the first page.

Paper

You can use A4 or US Letter (8.5" by 11") cut sheet paper. Use paper with a 'weight' of between 65g and 90g as recommended in the printer's manual.

Always check that there is enough paper in the printer before starting.

Before loading paper into any type of printer it is best to fan out the edges to separate the sheets. Square up the stack again before loading into the paper tray. Don't cram too many sheets into the printer.

Ink-Jet printers. If the printing appears very blurred as if it is out of focus then the paper you are using is too absorbent. Try another type of paper. Most paper has a "best" side and you can sometimes make an improvement by using the other side of the paper.

Laser printers. Photocopier paper will give good results.

2. Installing.

Before you unpack and install the RPC-44 and the printer please read through these notes.

RPC-44

Unpack the RPC-44 from the carton and check that you have all of the following:-

- ❖ The RPC-44
- ❖ Mains cable (connects the RPC-44 to the mains supply)
- ❖ Data cable RED 44-100 (connects the RPC-44 to the PU Monitor)
- ❖ Data cable RED 44-CEN (connects the RPC-44 to the printer)

You will also need:-

- ❖ A suitable printer (ink-jet or laser printer : see configuration choice list)
- ❖ A supply of paper (A4 or US letter size)

Find a place to set up the RPC-44 on a firm bench where you will have sufficient room to place the PU Monitor alongside.

Connect the mains cable to the RPC-44 but don't connect to the mains supply yet. Plug the two data cables into the RPC-44 so that they are ready to connect to the printer and to your PU Monitor.

Printer

Unpack the printer and any accessories such as power supply and ink cartridges. You should refer to the printer's manual for information about assembling it, installing ink or toner cartridges and loading paper.

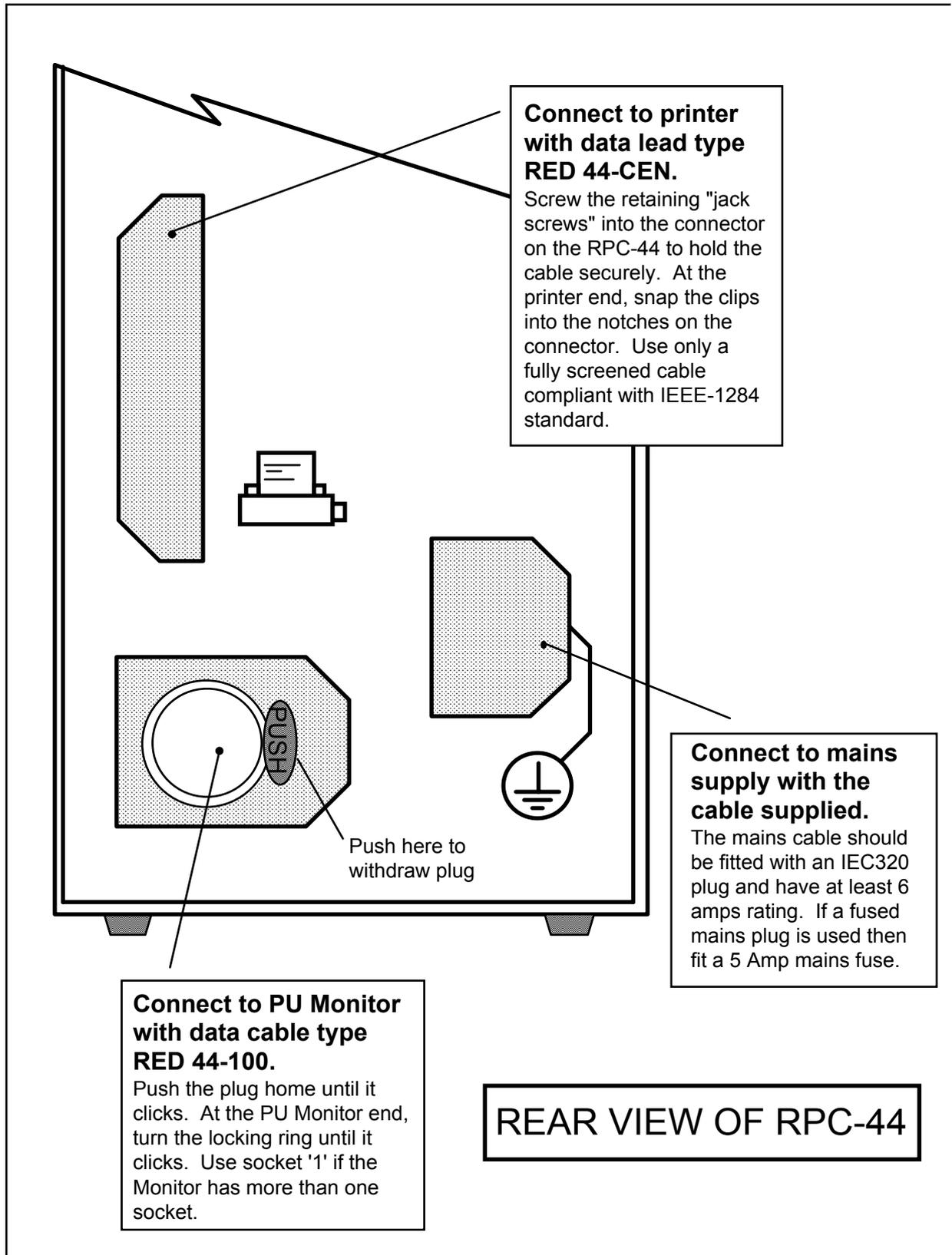
Find a good place to set up the printer, preferably on a shelf above the bench. This avoids water splashes and other damage and helps keep the printer and paper clean.

The printer should be used in the default mode as supplied and requires only the paper guide to be set for the size of paper you are using (A4 or US letter). There are no other settings that require adjustment.

Connect the printer to the RPC-44 (with data cable RED 44-CEN) and to the mains supply. Most printers use an external power supply unit, connect it as described in your printer's manual. Don't switch the printer on until you have connected the data cable to both the printer and the RPC-44. Connecting the data cable with the printer switched on can cause problems.

Configuring

If your RPC-44 and printer were supplied together then the RPC-44 will already have been configured to match your printer. If you have supplied your own printer then you will need to configure the RPC-44 so that it sends the correct commands to your printer. You should turn to section 4 "Configuring" before you use the RPC-44 for the first time.



3. Operating.

Install and set up the RPC-44 and the printer as described in section 2 "Installing".

Connect the RPC-44 to the mains supply. Switch on the printer and make sure it has enough paper.

Connect the PU Monitor to the RPC-44. Use socket "1" if the PU Monitor has more than one socket.

1 Press an Option button to select the type of print-out you want.

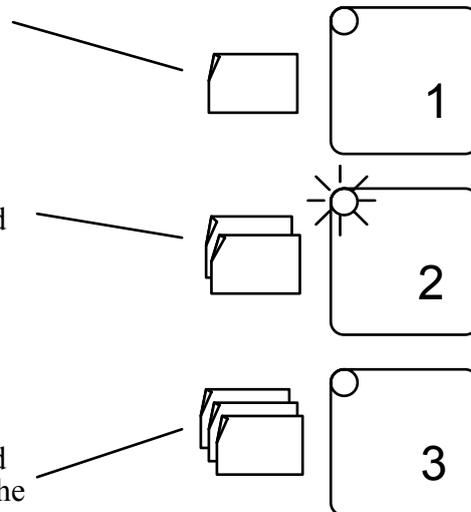
Information about the PU Monitor, the calculated PU results and a simple, low resolution graph of the recorded data are all printed together on a single page.

Information about the PU Monitor and the calculated PU results are printed on the first page. A high resolution graph of the recorded data is printed on the second page.

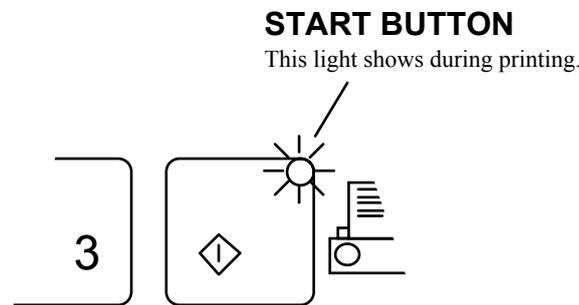
Information about the PU Monitor and the calculated PU results are printed on the first page. A high resolution graph of the recorded data is printed on the second page. A list of the values of the recorded data is printed starting on the third page and continuing on further pages as required.

OPTION BUTTONS

The lights on the buttons show which option is selected.



2 Press the Start button to begin printing



You can **stop** the print-out at any time by pressing and holding the Start button for at least 3 seconds.

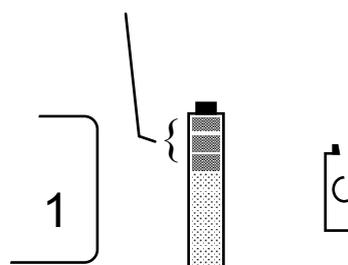
After printing has finished you can re-print the recorded data by pressing the Start button again or you can switch off the PU Monitor to make it ready for a new recording run.

For the RPU-120+ type only you can print a Status Report of the Monitor by holding down the Option 1 and Option 3 buttons while you press the Start button. This is mainly intended for use by service personnel.

3 Let the battery in the PU Monitor charge up.

The RPC-44 re-charges the battery in the PU Monitor. You must leave the PU Monitor connected until the battery "fuel gauge" moves into the green section. The PU Monitor will then have sufficient charge for another full recording run. When no green lights show then leave the PU Monitor connected to take more charge.

BATTERY FUEL GAUGE
The top 3 lights are coloured green.
When any green lights show then the PU Monitor is ready for use.



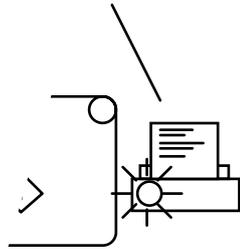
Printer problems.

Sometimes the printer will not respond to the instructions that the RPC-44 sends to it. The light in the printer symbol starts to flash and you will hear a warning tone. You may need to refer to the trouble shooting section of your printer's operating manual to solve the problem.

PRINTER SYMBOL

When the light flashes slowly the printer is off line.

When the light flashes fast the printer has run out of paper.



Off-line

If the printer symbol light flashes slowly (once per second) then the printer is "off-line".

- i) Check that the printer is connected to the power supply and switched on.
- ii) Check that the printer is connected to the RPC-44. (Data cable RED 44-CEN)
- iii) Some laser printers have a display which should give you more information about the problem.
- iv) For ink jet printers check that an ink cartridge is fitted.
- v) The paper may have jammed - clear the paper path. If the paper jams frequently then check that you have correctly adjusted the printer for your size of paper. Don't overload the paper tray.

After clearing an error you should press the "on-line" or "resume" button on the printer, this button is sometimes marked with a sheet of paper icon. The RPC-44 will automatically re-start printing.

- vi) If this is the first time that you have used the printer with the RPC-44 then refer to the installation instructions in section 2 "Installing". If you have supplied your own printer then you may need to configure the RPC-44 so that it sends the correct commands to your printer. Refer to section 4 "Configuring". If you have used the printer with other equipment since you last used it successfully with the RPC-44 then you may need to reset the printer to its default settings. See the printer's manual.

Paper

If the printer symbol light flashes fast (about 6 times per second) then the printer has run out of paper. After loading more paper you should press the "on-line" or "resume" button on the printer, this button is sometimes marked with a sheet of paper icon. The RPC-44 will automatically re-start printing.

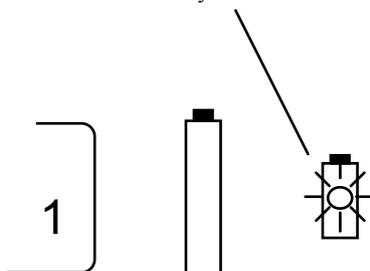
Battery problems.

Sometimes the RPC-44 will be unable to charge the battery in the PU Monitor. You will still be able to print out the results of your recording run but the light in the battery symbol will flash and a warning message will be printed with the results.

BATTERY SYMBOL

When the light flashes slowly the battery is too cold to take any charge.

When the light flashes fast the battery is too hot to be charged safely.



If the battery is below -10°C or above 60°C then it cannot be charged. The temperature of the battery is measured by a sensor in the PU Monitor. Allow time for the battery to reach ambient temperature so that the battery can be charged before you unplug it from the RPC-44. Leave the PU Monitor connected until the battery "fuel gauge" moves into the green section.

If you know that the battery is definitely at room temperature but the battery symbol light still flashes then there is a fault.

- i) Check the connecting cable between the RPC-44 and the PU Monitor. (RED 44-100) Look for damage to the connector pins or the cable.
- ii) Check the socket on the PU Monitor. It may be in poor condition or dirty and making a bad connection.
- iii) Check the temperature sensor for the battery of the PU Monitor. You should be able to measure a resistance of between about 500 Ohms and about 1600 Ohms between pins 'A' and 'E' of the socket of the PU Monitor. (Measure on socket 1 if the Monitor has more than one socket.)

4. Configuring.

Configuring the RPC-44 takes place in two parts and allows you to choose language and printer.

Part 1. You can choose the language the RPC-44 will use to print the text of the results and graphs. This does not depend on the language used by the PU Monitor that you connect. All the text is "translated" into your chosen language.

Part 2. You can set the RPC-44 to match your printer and choose whether to print in monochrome (black & white) or in colour.

For both parts you choose from a list which is printed out at the start of the configuration procedure. The list may change from time to time and so you may find different choices on RPC-44s purchased at different times.

Install and set up the RPC-44 and the printer as described in section 2 "Installing". Don't connect the RPC-44 to the mains supply yet. Don't connect a PU Monitor to the RPC-44 yet.

Switch on your **printer** and make sure it has enough paper.

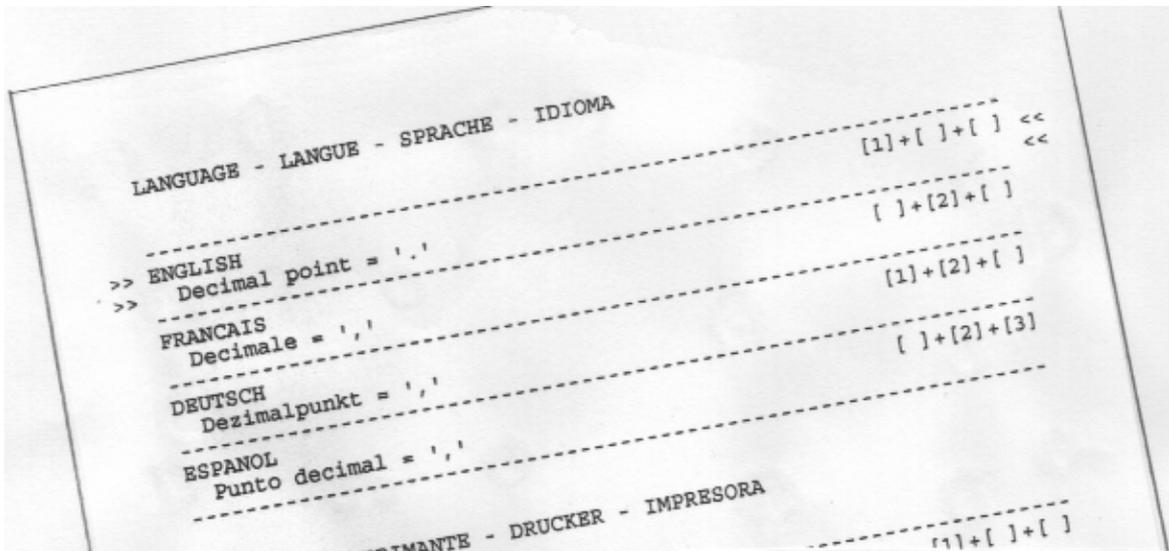
1 Connect printer to RPC-44 and switch on the printer.

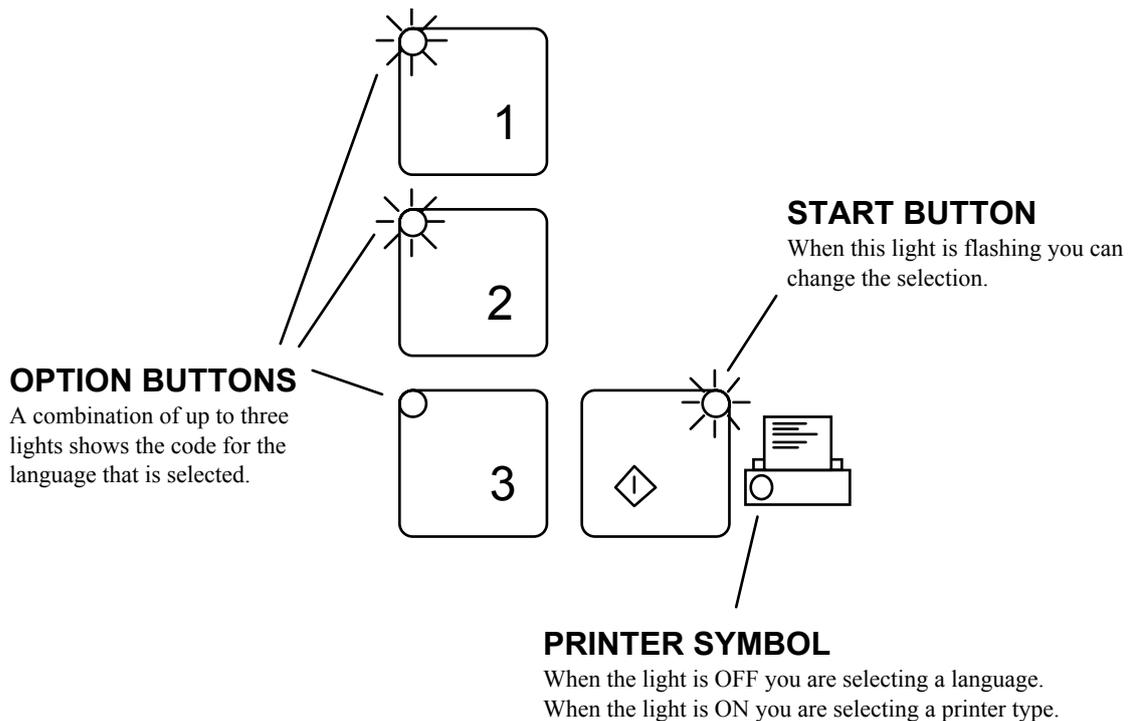
To set the RPC-44 ready for configuration you must hold down any one of the control panel buttons while you connect the RPC-44 to the mains supply. Continue to hold the button for at least two seconds.

2 Hold down any button on RPC-44 and switch on the RPC-44.

The light on the Start button will begin to flash. The unit is now ready for the first part of the configuration procedure. The list of configuration options will be printed out. The list highlights the language and the printer that are currently selected.

3 Read the list of choices for language and printer.





One or more of the lights in the corners of the Option buttons will be on. This **combination** of up to 3 lights shows the language that is currently selected. Look at the printed list, each selection has a code showing the correct combination of lights.

Example: [1] + [2] + []

This means that the Option 1 and Option 2 button lights must be on and the third one must be off. This is the correct combination for the German language.

You can now change the language selection by pressing the Option buttons. Press to turn on the light and press again to turn off. (At this stage any changes you make are not permanent.)

4 Press Option buttons to select the language you want.

When you change the selection the Option button lights will start to flash to show that the selection is provisional and has not yet been entered into the system. If you change back to the currently selected language the lights go back to steady illumination.

You are now ready to store your selection by pressing the Start button. Your language selection will be stored in the system and you will hear a single tone. The selected Option button lights and the Start button light will light steadily for a few seconds to confirm that your selection has been accepted.

5 Press the Start button to store your language selection.

(If you accidentally select an option that is not in the list then you will hear a warning tone and the selection will change back to its original value. The Start button light keeps flashing. Nothing is entered into the system and you must repeat step 1.)

When the light on the Start button begins to flash again, this time the Printer symbol will also light up to indicate that you are about to select a printer. The unit is now ready for the second part of the configuration procedure which you carry out just like the first part.

6 Press Option buttons to select the printer you want.

Example: [] + [] + [3]

This means that the Option 3 button light is on and the others are off. This is the correct combination for the "PCL3" group of printers, mainly from Hewlett Packard.

(At any stage before you press the Start switch for the second time - before stage 7 - you can abandon the new configuration by disconnecting the mains supply. Both settings will be restored to their previous values.)

When you next press the Start button your printer selection will be stored and you will hear a double tone. The selected Option button lights, the Start button light and Printer symbol light will all light steadily for a few seconds to confirm that your selection has been accepted.

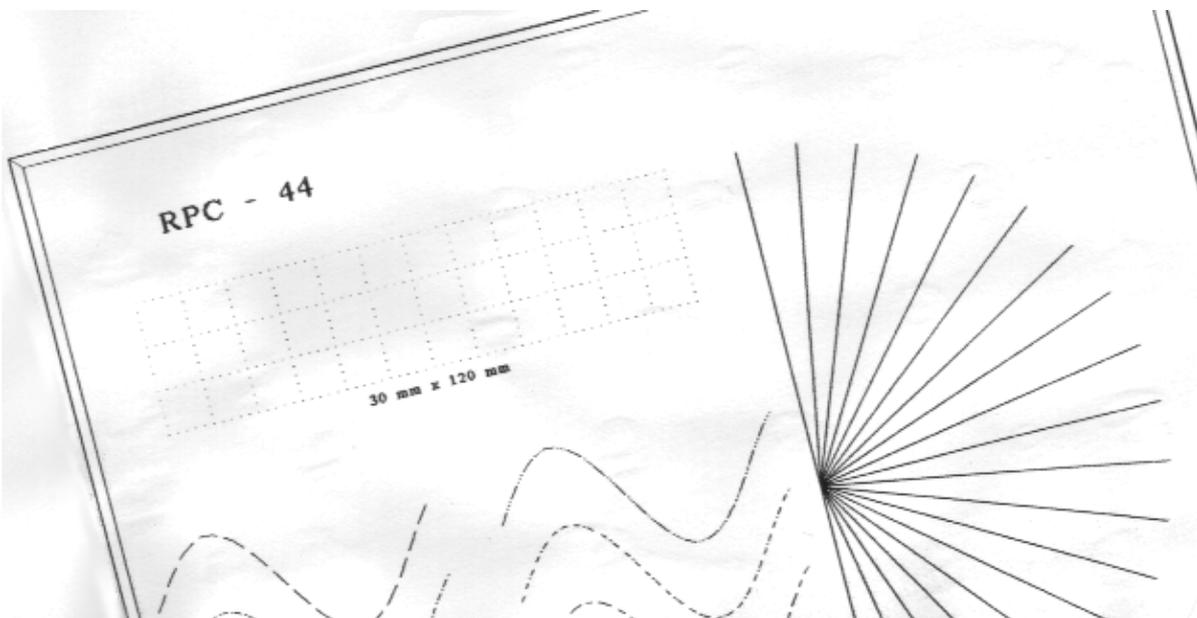
7 Press the Start button to store your printer selection.

The selections for language and printer are permanently recorded in the RPC-44 and a test page is printed to confirm that the settings are correct. (The printing of the test page cannot be cancelled.)

8 Check the printed test page.

The absolute size accuracy of the printed test grid will vary from printer to printer. Expect the errors to be less than $\pm 2\%$.

If there is any problem in printing this test page then you may have chosen the wrong printer type. Check your printer type and change the configuration if required. To start the configuration again you must first disconnect the RPC-44 from the mains supply. Always select both items, first language and then printer. (You can print the test page again at any time by holding down all three Option buttons while you press the Start button.)



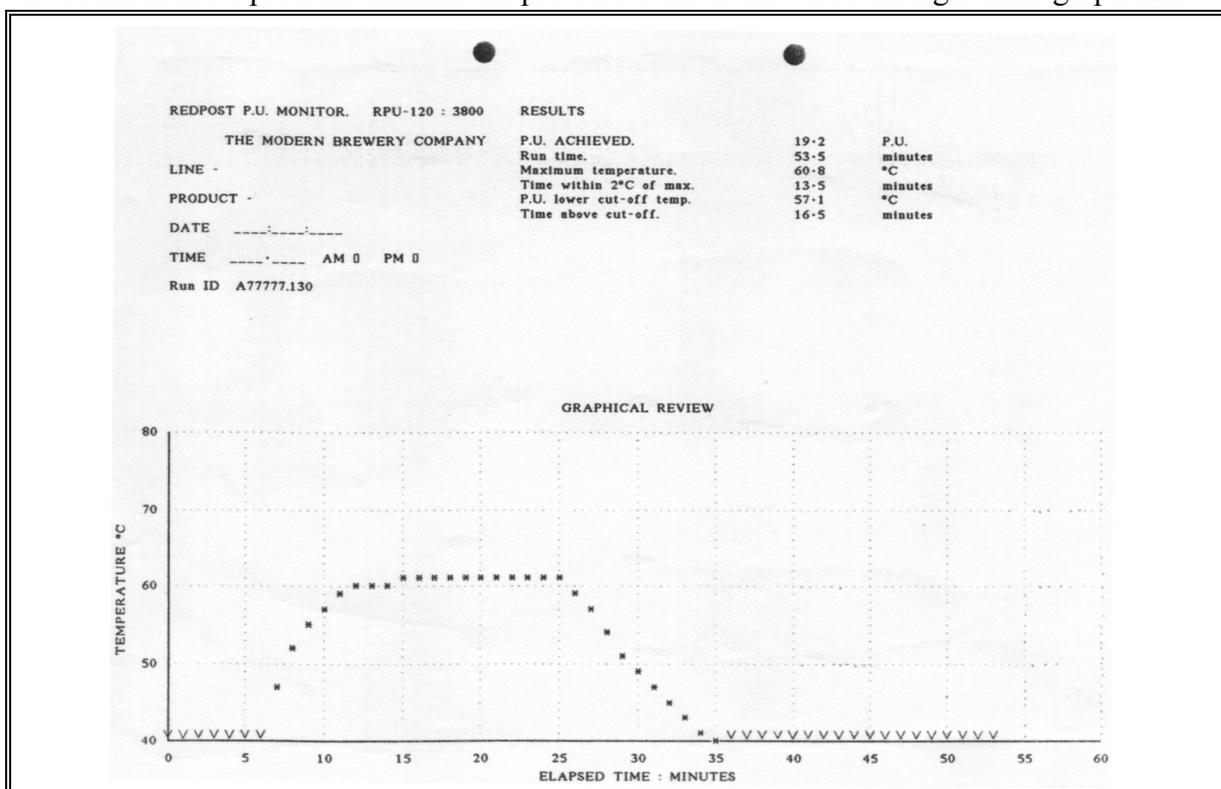
5. Printed Results.

The RPC-44 prints all the results calculated by the 100 series PU Monitor together with a graph of the recorded data. The printed text will be in the language selected when configuring the RPC-44 irrespective of the language programmed into the PU Monitor. The PU calculation, PU lower cut-off temperature and temperature (& pressure) units will be those programmed into the PU Monitor itself; these items cannot be changed by the RPC-44.

A unique identity number is printed on all the pages of each print out. For the 120 and 122 Monitors this number identifies only the print out and will change if the same recording run is re-printed. For the 120+ Monitors this number actually identifies each recording run and therefore will not change if the same run is re-printed.

Option 1

The single sheet option, when you use the Option 1 switch setting, will condense all the information onto a single sheet of paper. There is a binding margin at the top for filing. The results calculated and printed vary slightly from Monitor to Monitor but will include the Total PU achieved and the Maximum Temperature (& pressure) reached. The simplified "graph" in this option has reduced resolution along all axes but this option is the fastest. If the Monitor has a pressure channel the pressure scale is shown as the right hand graph axis.

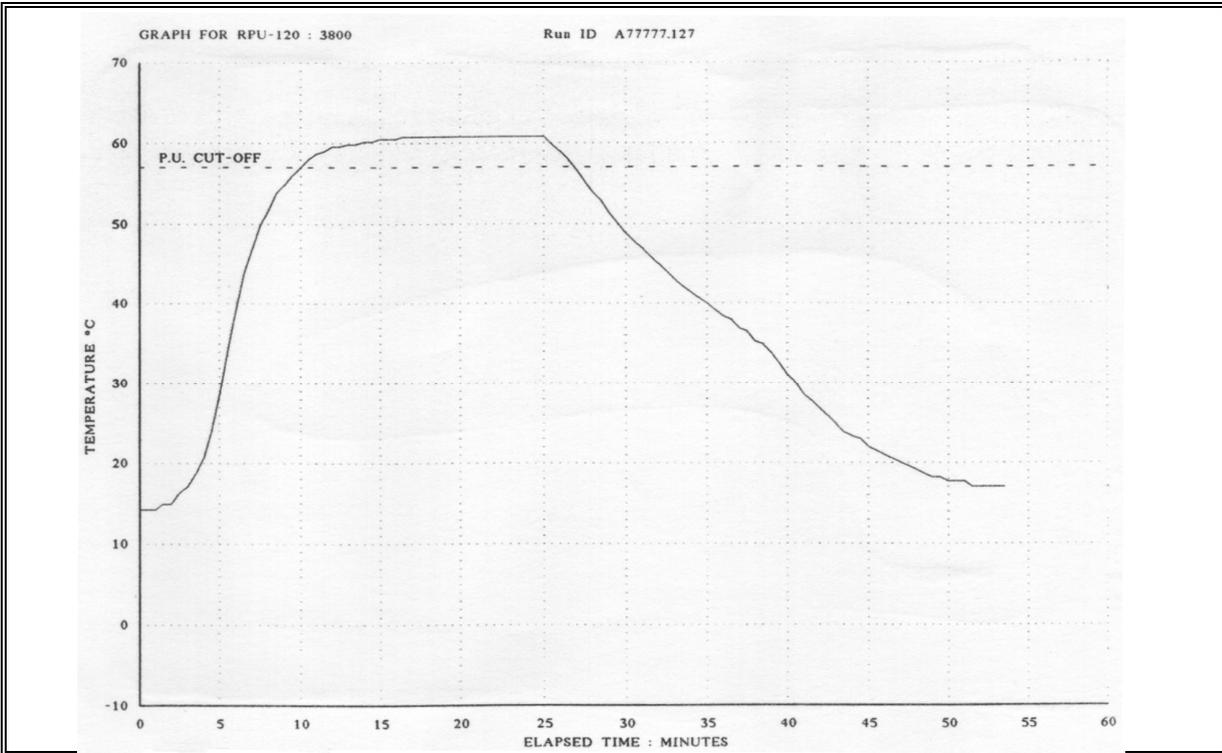


Off-graph recordings

If any of the recordings are outside the range that can be printed on the graph then they are shown as downward or upward facing arrows at the extremes of the graph scale. The above example starts and finishes in this condition. For Option 1 the graph range is programmed into the PU Monitor itself, for Options 2 and 3 it is chosen by the RPC-44 to carry as much information as possible.

Option 2

The Option 2 setting will print a high resolution graph on a second sheet of paper. The scales are automatically selected to give the best coverage of the recorded data. If the PU Monitor has two channels then they are shown in different line styles or in different colours if you have a suitable printer. If the Monitor has a pressure channel the pressure scale is shown as the right hand graph axis.



Option 3

Option 3 allows you to print all the recorded data. The first two pages are the same as Option 2. The third page lists times and recorded values to the maximum resolution of the Monitor.

FULL REVIEW LISTING FOR RPU-120 : 3800						Run ID A77777.127
TIME	°C	TIME	°C	TIME	°C	
0.0	14.2	21.0	60.8	42.0	26.8	
0.5	14.2	21.5	60.8	42.5	25.9	
1.0	14.2	22.0	60.8	43.0	24.9	
1.5	14.9	22.5	60.8	43.5	23.9	
2.0	14.9	23.0	60.8	44.0	23.4	
2.5	16.3	23.5	60.8	44.5	23.0	
3.0	17.0	24.0	60.8	45.0	22.0	
3.5	18.6	24.5	60.8	45.5	21.5	
4.0	20.6	25.0	60.8	46.0	21.0	
4.5	23.9	25.5	60.8	46.5	20.6	
5.0	28.7	26.0	60.8			
5.5	34.2	26.5	60.8			

Off-scale recordings

If any of the recordings are outside the range that the PU Monitor was designed to handle then most of the calculated results will be meaningless or impossible to calculate and so you cannot produce anything useful with Option 1. However, Option 3 will produce the list of recorded results with the words "High" or "Low" replacing the off-scale recordings. This may help to indicate when the problem occurred and therefore what caused it. Very often, off-scale recordings are the result of a damaged or faulty temperature probe.

6. Frequently Asked Questions.

Q1 With the RPC-44, when I connect a PU Monitor its ON/OFF light stops flashing and stays on constantly. This didn't happen with the RPC-42. Is this OK?

Yes, this is normal behaviour. In order to be able to start printing as soon as possible the RPC-44 calls for the data from the PU Monitor as soon as it is connected. This is what you are seeing.

Q2 Why does nothing happen except a click when I press the Start button?

The RPC-44 will not start any printing until a PU Monitor is connected. If you have connected a PU Monitor see Q5

Q3 Can I stop the printing and start again with a different option? I started a print out with all three pages then I changed my mind and now I only want a one page print out.

Yes, you can change your mind. Select the new option and press the Start button even if a print out is in progress.

Q4 When I hold down the Start button to cancel the printing I hear the 'cancel' tone OK but then I still get quite a lot more printing before it finally stops. What's happening?

Most printers have a "buffer" where data is stored before printing. There is not always a way for the RPC-44 to clear this buffer and so, even though no more data is being sent, printing will continue until the buffer is empty.

Q5 I have connected my PU Monitor to the RPC-44 after a recording run but the battery fuel gauge shows no lights and nothing happens except a click when I press the Start button. No error lights are showing. Why can't I get a print out?

The RPC-44 does not recognise that you have connected the PU Monitor. Check that the data cable (RED 44-100) is firmly connected and that the connector on the PU Monitor is clean.

Q6 My PU Monitor seems dead and it won't switch on. On the RPC-44 it shows a full fuel gauge - all 3 greens - but it still won't switch on after I disconnect it from the RPC-44. What's the problem?

The battery is faulty and is accepting only a very small charge current. This convinces the RPC-44 that the battery is fully charged. You should fit a new battery or return the PU Monitor for service.

Q7 When I connect my PU Monitor to the RPC-44 the battery symbol light is flashing and the battery fuel gauge shows no lights. When I print the results of my recording run there is an unusual message saying "Battery not charging". Why is the battery not charging and what do I do about it?

The battery may be too hot or too cold to charge. There is a safety device that measures the temperature of the battery and prevents charging when the conditions are wrong. See the "Operating - Battery problems" section in the RPC-44 operating manual.

Q8 I would prefer to have the text from the RPC-44 in my own language. How do I change the printing to French?

You select the correct language option when configuring the RPC-44. See the "Configuring" section in the RPC-44 operating manual.

Q9 I've just changed my old Canon printer to a new Hewlett Packard one. I've connected it exactly as I did the old one but it prints a few lines beginning "BJLSTART" and then pages of random characters. What's wrong?

When you change to another type of printer you need to configure the RPC-44 to match the new printer. See the "Configuring" section in the RPC-44 operating manual.

Q10 When I first switch on the printer it makes noises and moves the print head about even before I press the Start button on the RPC-44. Why?

This is normal for ink-jet printers. The printer is cleaning the print head.

Q11 We accidentally dropped and damaged the ink-jet printer that we were using with the RPC-44. It no longer prints. Can we return it for repair?

Unfortunately we are unable to repair printers. Very few manufacturers offer spare parts and in nearly all cases the cost of repair would be much higher than the cost of a new printer.

Q12 We don't want to use colour printing and so we only installed the black ink cartridge in the printer. Now it won't print with the RPC-44. Why not?

Many ink-jet printers that have two ink cartridges (one for black and the other for colours) require them both to be installed all the time. Check the printer's manual.

Q13 When I was moving the printer to a better position I disconnected the printer cable from the RPC-44 and then re-connected it. Now the printer doesn't work. What's happened?

You should only disconnect and re-connect the printer cable (RED 44-CEN) when both the printer and the RPC-44 are switched off. Because most printers do not use a mains earth connection you can generate voltage spikes on the data cable that cause the printer to malfunction temporarily. To clear the problem disconnect both units from the mains for about 30 seconds and then re-start.

Q14 How can the RPC-44 manage to print out a list of the options for the configuration procedure before I've told it which printer I'm using?

The list of options is printed using only the most basic printer commands which are common to all types. The printing of graphs etc. is done with more advanced commands that must be matched to the type of printer in use.

Q15 I remember that after I configured the RPC-44 a test page was printed. Can I print it again to check the system and my printer?

Yes, hold down all three Option buttons while you press the Start button. If you are printing in colour this test page will check the colour ink cartridge. Once you have started to print you can't cancel the test page or start a normal print out until it has finished printing.

Q16 I have a printer that is not mentioned on your printer selection list. How do I use it with the RPC-44?

If the printer is made by Canon, Hewlett Packard or Epson then try the configuration setting for that manufacturer. If in doubt you should use the monochrome setting. You won't do any harm by trying a printer on the wrong setting. If the printer is from another manufacturer and you have the instruction manual then check if it will "emulate" a Canon or Epson (ESC P/2) printer or, better still, if it can emulate the HP PCL3 (or higher) language. You will then be able to use your printer with that configuration setting. To change the emulation in the printer you may need to connect it to a PC and use the installation disc that came with the printer. Check in the printer's manual.

Q17 The RPC-44 doesn't seem to have an on/off switch. Is it safe to leave it connected to the mains all the time?

Yes, quite safe. The idle power consumption when no PU Monitor is connected is only about 15 Watts. It is also safe to leave PU Monitors charging continuously if you wish.

Q18 Why can't I get the RPC-44 to print from my RPU-242 PU Monitor?

The RPC-44 is designed for use with the 100 series PU Monitors only. These include the RPU-120, RPU-122, RPT-122 and RPU-120+. You should use the RPU-242 only with the RPC-80 series playback units.



DECLARATION OF CONFORMITY

EQUIPMENT:- Playback unit for PU.Monitor
Type RPC-44

MANUFACTURER:- Redpost Electronic Products Ltd.,
The Old Pumping Station, Toft Rd.,
Bourn, Cambridge. CB3 7TT U.K.

DIRECTIVES:- 73/23/EEC "Electrical safety"
89/336/EEC "Electromagnetic compatibility"
93/68/EEC "CE marking"

STANDARDS APPLIED:- EN 60950 (Amendment 2)
Electrical safety - IT equipment

EN 55081-1 : 1992
Generic Emissions - Light industrial

EN 50082-1 : 1998
Generic Immunity - Light industrial

DECLARATION:-

I certify that this apparatus conforms with the requirements of the above directives.

E.F.Aldred.
Technical Director,
Redpost Electronic Products Ltd.

DATE:- 15th September 1998

To ensure that the equipment continues to conform with the above directives use with data cables of the type and quality supplied with the equipment. Use Centronics and other data cables with a high quality braided screen and fully shielded connectors.