

PiKoNET User's Manual

PiKo[®]



**PiKoNET
Asthma
Management
Software**



treat-asthma.com

www.ferrarisrespiratory.com

User's Manual Part Number 603719, Version/Revision 1.B

Installation

PiKoNET installeres let i løbet af cirka 10 minutter.





Dockingstation

Stikket på kablet fra docking stationen må ikke indsættes i USB stikket før programmet er installeret. Indsæt først CD'en i drevet og følg instruktionerne til programmet er installeret. Herefter indsættes USB stikket mens CD'en stadig sidder i drevet. Programmet vil efterfølgende automatisk finde og installere en driver til dockingstation. Husk til sidst at vælge den rigtige port under Options/Preference Setting inde i selve programmet. Herefter oprettes en ny mappe og efterfølgende et patientkort. Man er herefter i stand til, ved at benytte download funktionen, at overføre sine måledata fra PiKo måleren til PiKoNET programmet.

Funktionsfejl

Hvis der på et tidspunkt opstår vanskeligheder med download funktionen, er den mest sandsynlige årsag, at batterierne i PiKo apparatet skal skiftes. Prøv eventuelt også at rengøre både undersiden af PiKo apparatet og selve docking stationen, da snavs kan forhindre en korrekt overførsel. Undersøg også om den rigtige port er indstillet under Options/Preference Settings. Derudover undersøges også for synlige fejl på enten PiKo apparatet, docking stationen eller kablet.

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	This symbol indicates that this device provides a certain level of protection against electric shock because the patient applied part is floating.
	This symbol indicates that the user must read and understand all instructions and warnings prior to use.
	This symbol indicates that this class IIA equipment complies with the Medical Devices Directive of the European Economic Community.
	This symbol indicates that the associated jack is for a Universal Serial Bus connection.

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Revision History

Version/Revision	Release Date	Description
1.B	January, 2005	Implemented this revision history. Updated document formatting (added numbered headings, table of contents, figure captions, etc.).

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1 Introduction

Thank you for purchasing this quality product from Ferraris Respiratory, the world leader in diagnostic technology for pulmonary and asthma disease. For more details on our company and its offerings, please refer to our website: www.ferrarisrespiratory.com or contact our Danish representative Jepsen Import. Website: www.jepsenimport.dk

Note: If using the USB version of the PiKo interface cradle for downloading data from the PiKo device, DO NOT plug the cradle into the USB port until after the software has been installed.

1.1 Requirements

1.1.1 Operating System

Windows 98, Windows ME, Windows 2000, Windows XP, or higher. If using Windows 2000, Windows XP, or higher, installation requires that the user be logged in as an administrator.

1.1.2 Hardware

Minimum of Pentium III, 600 MHz, 64MB RAM, 500MB free disk space.

1.1.3 Networks

This is a single computer-based product; however, if the computer is part of a network, installation requires that the user be logged in as an administrator.

2 Software Installation

1. Insert installation CD in the computer's CD drive. After a short delay for loading, the installation program should automatically start. If it does not, choose Start → Run, click the Browse button, navigate to the CD drive and double-click on the **SETUP** icon.
2. Follow the on-screen instructions to complete the installation. If the computer does not have any of the following support file, they will be automatically installed: .NET Framework version 1.1 or higher, MDAC version 2.6 or higher, or JET version 4.0 or higher.

Note: In some cases, particularly if performing an installation on an older Windows operating systems, after the installation of any of the above mentioned support files, the computer will need to be restarted and the installation program will need to be run again to complete the installation.

3. During the installation, please read and accept the terms of the license agreements. On one screen it will ask to choose between "Just me" and "Everyone." It is recommended to choose "Everyone" to ensure that all users can gain access to this program.

2.1 USB Cradle Driver Installation

1. If you are using the USB version of the PiKo interface cradle for downloading data from the PiKo device, keep the CD in the drive after you have completed the above installation.
2. Plug the USB PiKo Cradle into any available USB port on the computer.
3. The computer will automatically search for and load the appropriate USB driver.
4. If for any reason the driver fails to load, follow standard Windows procedure for manual installation of the drivers which can be found in the following folders:

Personal Version using Win98, WinME, WinNT:

C:\Program Files\Pulmonary Data Services\PiKoNET Personal\Prolific\Win9x

Professional Version using Win98, WinME, WinNT:

C:\Program Files\Pulmonary Data Services\PiKoNET Professional\Prolific\Win9x

Personal Version using Win2000 or WinXP:

C:\Program Files\Pulmonary Data Services\PiKoNET Personal\Prolific\WinXP

Professional Version using Win2000 or WinXP:

C:\Program Files\Pulmonary Data Services\PiKoNET Professional\Prolific\WinXP

3 Starting the Program

From the Windows Start Menu, choose either PiKoNET Personal or PiKoNET Professional, or click on the appropriate shortcut icon. After a brief display of an opening screen, the main program window is displayed. If using a USB interface cradle, be sure to set the USB port to be the default port by choosing Tools → Preferences → Applications Settings tab → Communications Port Name set to USB.

4 Using the Built-in Help System

On most screens, to get help with any item, click the field in which you need help, and then press F1. You also can click the ? in the upper right corner of the window and move the cursor to the field you need help with and click again. A help text paragraph is displayed.

5 Creating a New Database

Since the PiKoNET Professional software can support multiple databases (e.g.: one for research use, and another for clinical use), a default database does not open the first time the program is run. To create a new database, choose File → New. In the resulting window, enter any desired name for the new database in the File Name field. The extension for all PiKoNET database files is .PND and they are by default stored in the following folder:
C:\My Documents\PiKoNET Data

Each time the program is restarted, the last database used will be automatically accessed.

5.1 Menu Descriptions

5.1.1 File Menu

New: (keyboard shortcut: **Ctrl-N** or )

Enables you to type the name of a file you want to create and save. Use standard Windows navigation to store the file in the desired location or you can also type the full path of a file, for example:
C:\My Documents\DrugSudy.PND

Open: (keyboard shortcut: **Ctrl-O** or )

Enables you to type the name of the file you want to open. To quickly find a file you've previously opened, click the file name in the drop-down list, if available. If you are searching for a file, you can use asterisks (*) as wildcards. For example, you can type *.* to see a list of all files. You can also type the full path of a file, for example:
C:\My Documents\DrugSudy.PND

If you are saving a file, you cannot use a question mark (?) or an asterisk in the file name. If you use a question mark or asterisk and click Save, the file will not be saved and the dialog box will not close.

Export:

This choice will be unavailable (button will be dimmed) if there is no current patient selected. The export feature enables you to export any individual patient's data to one of three file types:

- PDF
Creates an Adobe Acrobat Portable Document of the entire patient report.
- TXT
Creates a Tab Delimited Text File useful for importing into word processing documents (see Figure 1).
- CSV
Creates a Comma Separated Values text file, suitable for importing easily into Excel or other spreadsheets, databases, and statistical analysis programs (see Figure 2).

Show	Serial.#	Date/Time	PEF	FEV1	Q-Factor
True	C0064109	10/9/2004 12:15-PM	489-L/min	2.86-L	!
True	C0064109	9/13/2004 8:15-AM	447-L/min	2.24-L	!
True	C0064109	9/7/2004 7:45-AM	389-L/min	2.27-L	!
True	C0064109	9/7/2004 6:30-AM	242-L/min	1.50-L	!
True	C0064109	8/31/2004 4:45-PM	347-L/min	1.82-L	!

Figure 1 - Example of Tab Separated Text (.TXT) Export Format

```
Show, Serial #, Date/Time, PEF, FEV1, Q-Factor, Comments
TRUE, C0064109, 10/9/2004 12:15, 489 L/min, 2.86 L, ,
TRUE, C0064109, 9/13/2004 8:15, 447 L/min, 2.24 L, !,
TRUE, C0064109, 9/7/2004 7:45, 389 L/min, 2.27 L, ,
TRUE, C0064109, 9/7/2004 6:30, 242 L/min, 1.50 L, ,
```

Figure 2 – Example of Comma Separated Values

Properties:

This choice will be unavailable (button will be dimmed) if a current patient is not selected. This function lets you view the File name and location of the current database, its file size and when it was created. It also lets you add comments to the properties to provide reminders of the purpose of this specific database. The Repair button can be used to attempt to repair problems in searching the file or viewing data within the file.

Study Properties:

This choice will be unavailable (button will be dimmed) if a current patient is not selected. This *optional* function is used for drug and other research studies to provide identification of this database as containing data from a specific study, coming from this specific site. For example, a pharmaceutical company sponsored study will be provided a program that allows collection of multiple databases from all their participating study sites. This program uses the information in this Study Properties dialog box to ensure that this data is part of their study. The user can enter the Site ID, the Study Code, and any relevant comments, all usually provided by the study sponsor.

Change Password:

This choice will be unavailable (button will be dimmed) if a current patient is not selected. This *optional* function is used to provide password protection for this particular database. If using multiple databases, this prevents accidentally using the wrong database, and allows access to the database by only the authorized personnel. To create a password the first time, leave the Old Password line blank but enter a password in the New Password line and retype it into the Confirm Password field.

Print: (keyboard shortcut: Ctrl-P)

Opens a standard Windows Print dialog box to send the report to your printer.

Print Preview:

Provides an on-screen preview of the report that would normally go directly to the printer.

Exit: (keyboard shortcut: Alt-F4)


Closes the PiKoNET program.

5.1.2 Edit Menu

Patient: (keyboard shortcut: Ctrl-E or icon)

Opens a dialog box to edit the demographics of the currently selected patient.

New Patient: (keyboard shortcut: Ctrl-A)

Provides an empty dialog box for entry of a new patient. Clicking the down arrow next to the patient search button () and choosing New Patient can also access this function.

Find Patient: (keyboard shortcut: Ctrl – F or icon)

Opens a dialog box to search for a patient by any combination of Patient ID, Last Name, First Name, or Middle Name. After a successfully completed search, click on the patient from the Search Results area and choose Select.

5.1.3 View Menu



All Data: (shown as AM-PM icon)

The graph and data table will display data from both AM and PM (the time before 1200 or after 1200 hours) measurements.

AM Data: (shown as AM icon)

The graph and data table will display data only from AM measurements.

PM Data: (shown as PM icon)

The graph and data table will display data only from PM measurements.

Diurnal Variation: (shown as DV icon)

The graph and data table will display diurnal variation (the change from morning to night) data from any pair of both AM and PM tests from the same day without any quality indicator. DV is presented as % change for PEF, FEV1, FEV6 and FEV1/FEV6.



Graph PEF: (shown as PEF icon)

The graph will display PEF values only.

Graph FEV1: (shown as FEV1 icon)

The graph will display FEV1 values only.

Graph FEV6: (shown as FEV6 icon)

The graph will display FEV6 values only.

Graph FEV1/FEV6 Ratio: (shown as FEV1/FEV6 icon)

The graph will display FEV1/FEV6 ratio only.

5.1.4 Tools Menu

Download: (keyboard shortcut: F5 or  icon)

This opens a dialog box providing instructions for downloading data from the PiKo. To download, simply place the PiKo device in the cradle, and with this window open, press the button on the PiKo device. After a brief delay, the data will begin downloading, shown by the progress bar. This should take a few seconds to complete. After the data is downloaded, the “Do you wish to clear the data from the PiKo? Y / N” question is displayed. This is your opportunity to erase data from the PiKo memory that has already been downloaded. However, it is not necessary since the PiKoNET software will not accidentally download duplicate data.

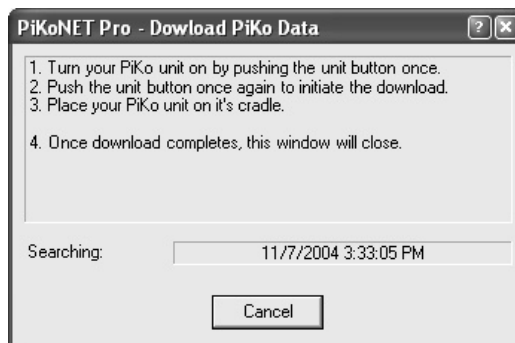


Figure 3 – Download PiKo Data Screen

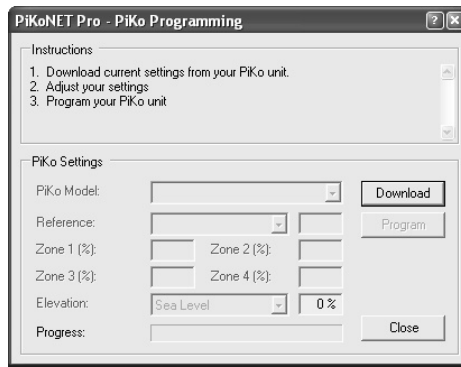


Figure 4 – PiKo Programming Screen

Program:

This opens a dialog box providing instructions for programming the PiKo settings. To program, simply place the PiKo device in the cradle, and with this window open, press the Download button. After a brief delay, the data will begin downloading, shown by the progress bar. After a few seconds, the current settings in the PiKo for Model, Reference Parameter (either the default PEF, or FEV1 or FEV6 if previously changed), the Reference Value, the Zone breakpoints for the on-device and on-screen Green-Yellow-Red zone, and the Elevation (correction factor) are displayed. To change any of these settings, simply fill in the fields and then press the Program button and then press the button on the PiKo device. All the new settings will then be quickly uploaded to the PiKo. If there is no value in the Reference field on the patient entry screen, this will be updated during the programming sequence.

Preferences:

This opens a dialog box providing a variety of settings for the PiKoNET program.

Application Settings: User Preferences

1. Number of days of displayed data: changes the number of days back from today’s date to show on the graph and tabular charts.
2. Height and weight units: to change patient entry units from inches and pounds (in/lbs) to centimeters and kilograms (cm/kg).
3. Font: enables changing of both on-screen and report font.

Application Settings: Communication Settings

1. Communications port name: the pull down pick list enables the choice of all serial COM ports and the USB port. This choice should match the port used by the cradle. This can be verified using Windows Hardware Device Manager under Ports. If this shows Prolific USB to Serial Comm (COMx), simply choose USB.
2. Polling: this is the number of seconds between looks at the cradle to see if the data download button has been pressed.
3. Timeout: this is the number of seconds that the software will wait for you to press the download button on the PiKo before it will abort the download.

Parameter Settings: this enables you to choose which parameters you would like to view on the graph or tabular chart. For example, if you have a PiKo-1, you can disable viewing of the FEV6 parameter since the PiKo-1 device does not produce the FEV6 measurement. Refer to Figure 5.

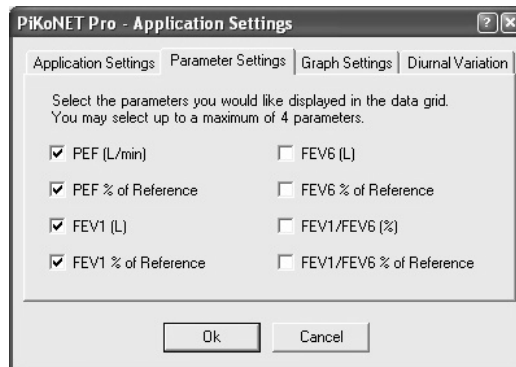


Figure 5 – Parameters Settings Tab

Graph Settings: (refer to Figure 6)

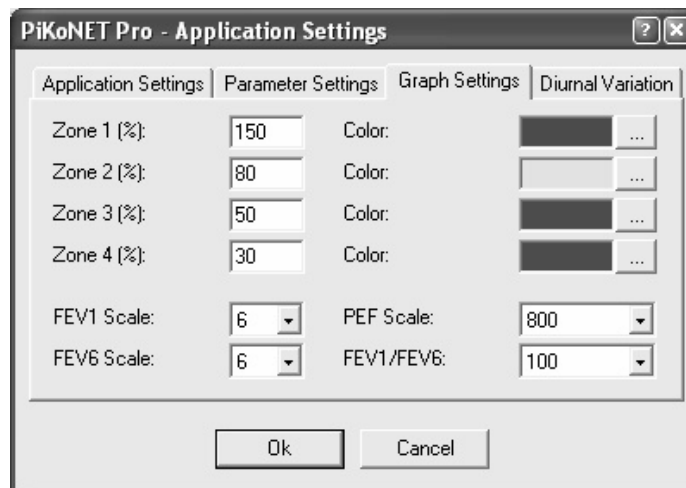


Figure 6 – Graph Settings Tab

1. Zone Percentage and Colors: the colors and percentage break points for each zone shown on-screen can be changed, if desired.
2. Scales: the scale shown for each parameter can be changed to better match the particular patient's data set.

Diurnal Variation: the percent difference between any specific days best AM value versus its best PM value is called Diurnal Variation. The percentage at which to define this as abnormal is configurable by the user, as is the scale and colors used to define normal and abnormal.

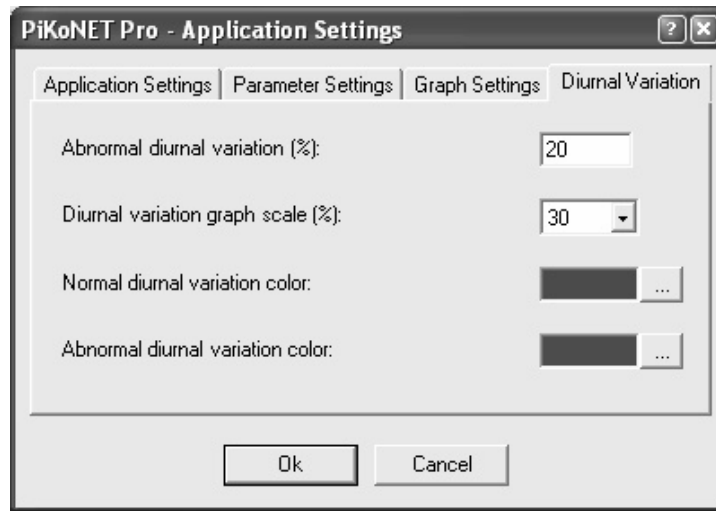


Figure 7 – Diurnal Tab Settings

5.2 Understanding the Main Screen Items

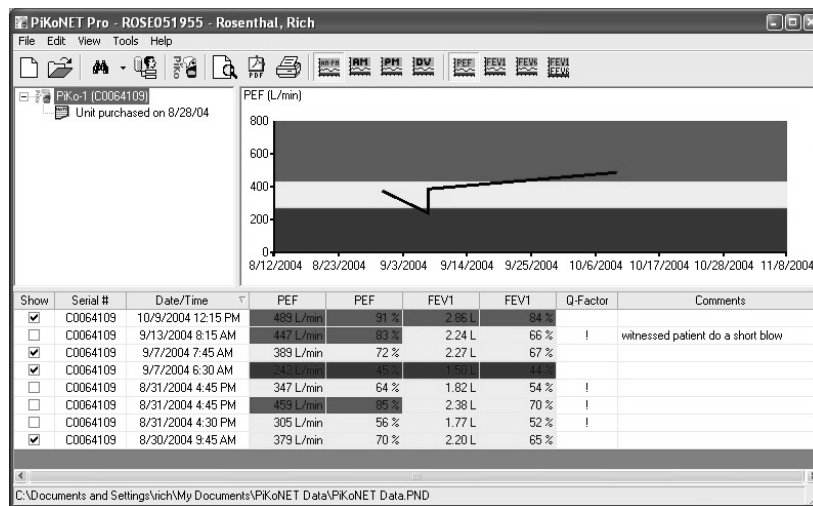



Figure 8 – Main Screen

Notes on the Main Viewing Screen

1. If the patient is issued multiple PiKo units, by double clicking on its serial number, you can type in a comment related to that PiKo unit.
2. A comment specific to any measurement can be added by clicking in the box to the right of the measurements labeled **Comments**. These comments will appear on the printed report.
3. To create an Adobe Acrobat copy of the report, which can easily be emailed, click on the Acrobat icon  on the toolbar.
4. If an ! appears in the Q-Factor column, it means that when the patient blew into the PiKo device, there was a technical error. This could include:
 - a. Blowing less than one complete second duration.
 - b. A weak effort with a slow start producing a low peak flow.
 - c. A “trumpeted” blow producing an impossibly high peak flow over 150% of the reference value.
 - d. A very low abnormal blow of less then 30% of the reference value.
5. When a Q-Factor is present, the PiKoNET software will not show that data in the graph. To override this choice, click the check box in the **Show** column.

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