

CheckMate PC Software

User Guide **EN**

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CheckMate PC Software

User Guide

EN

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Table of Contents

1. Introduction	5
About this Manual	5
Intended Use of this Manual	5
Reservations.	5
Important!	5
Safety and Use	5
Notes, cautions and warnings!	6
Explanation.	6
2. Installation of the Software	7
3. Using the Software.	13
General	13
Starting the application.	14
Login	14
Application Overview	15
Data Synchronization.	19
Application User Management	20
Create User	20
Edit/Delete User	22
Database Management	23
Backup of Databases	23
Restoring Databases.	23
Measurement Data.	24
Searching Data.	24
Exporting Data	25
Printing Data	26
Statistics	27
Product Setup.	28
Create/Edit Product.	28
Delete Product	29
Product Import	30
Device User Management	37
Create/Edit User	37
Delete User.	37
Device list.	38
Remove device.	39
Remote Data Dump Function.	40
Trouble shooting.	41

Appendix.....43
End User License Agreement (EULA)..... 43
End-user License Agreement for “CheckMate PC Software”..... 43

1. Introduction

About this Manual

Intended Use of this Manual

- This manual describes the common use of the **CheckMate PC Software**. It is intended for the daily users and should be kept with the equipment for reference at all times.

Reservations

- This manual was written and illustrated using the best possible information available at the time of publication.
- Any differences between this manual and the software reflect improvements introduced after the publication of the manual.
- Changes, technical inaccuracies and typographic errors will be corrected in subsequent editions.
- As a part of our policy of continuous improvement, we reserve the right to alter design and specifications without further notice.

Important!

Safety and Use

To promote safety awareness you must read and understand the **Safety Instructions** delivered with the **CheckMate** device before performing any installation, operation or maintenance of the device.

Notes, cautions and warnings!

Throughout the manual notes, cautions, and warnings are indicated with various icons and written in bold like the example below:



CAUTION! Always replace a fuse with one of the same size and rating.

Explanation



NOTE! The operator should observe and/or act according to the information in order to obtain the best possible function of the equipment.



CAUTION! The operator must observe and/or act according to the information in order to avoid any mechanical or electrical damage to the equipment.



WARNING! The operator must observe and/or act according to the information in order to avoid any personnel injury.

2. Installation of the Software



IMPORTANT! Please read the terms and conditions of the software license agreement on page 43 carefully before installation.

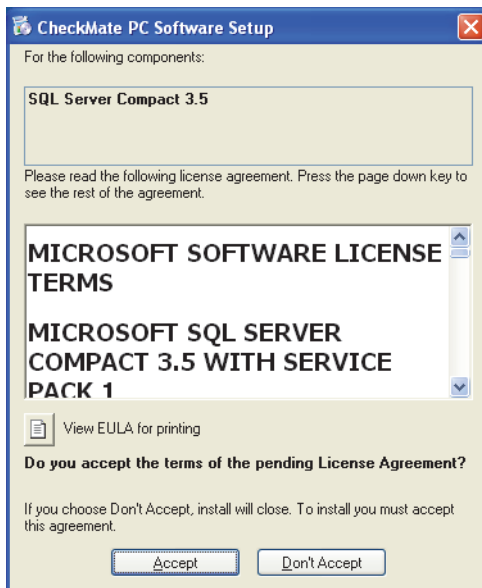


IMPORTANT! Install the software before the CheckMate device is connected to the PC as it includes necessary device drivers.

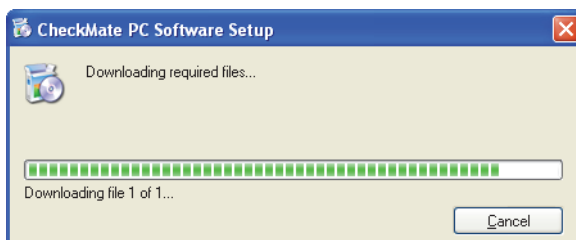


NOTE! Earlier versions of the programs must be removed prior to the installation. To remove program select Control Panel -> Add/Remove Programs -> CheckMate PC Software.

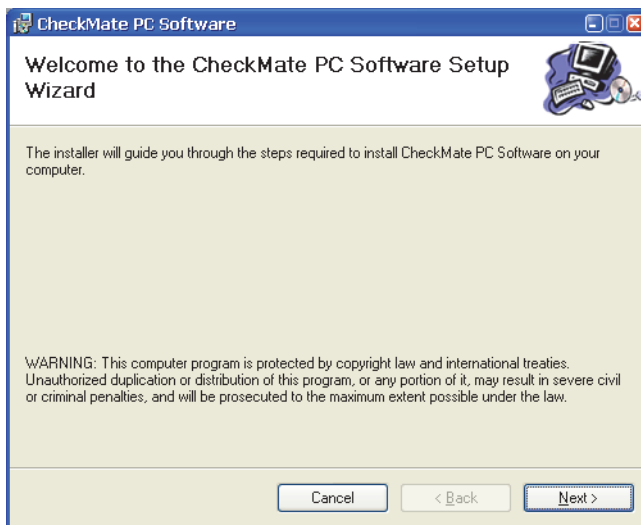
- The installation starts automatically when the CD is inserted in the PC's CD drive. If not it can be started manually following below procedure:
 - Select **My Computer** from the **Start** menu.
 - In the appearing window locate the CD drive and double-click it.
 - In the appearing window locate the file **Setup.exe** and double-click it to start the installation.



- Click **Accept** and wait.

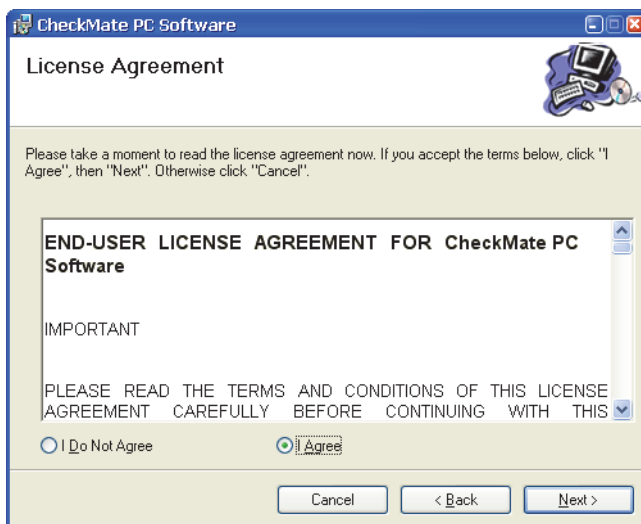


- When the following screen appears...



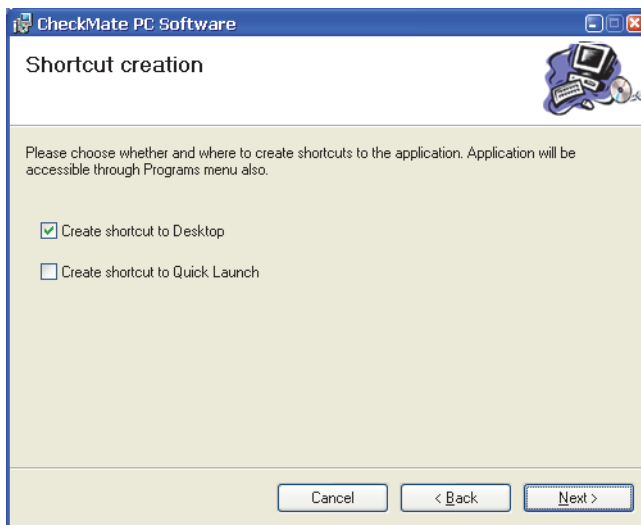
...click **Next** to start the installation.

- In the appearing **License Agreement** window...



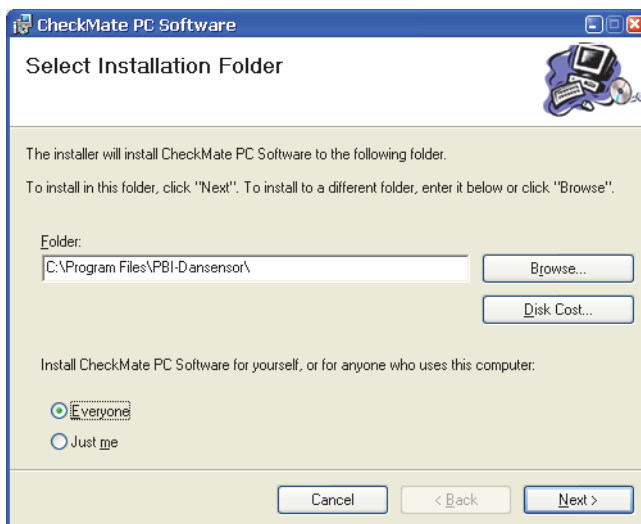
...click **I Agree** to accept the license agreement and then click **Next**.

- In the **Shortcut creation** window...

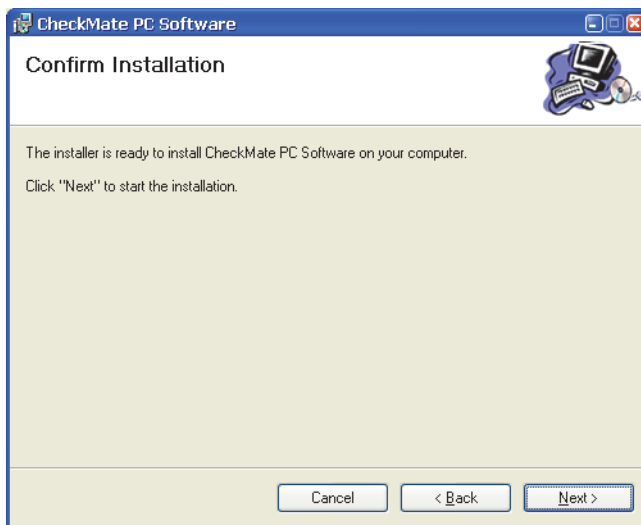


...select your preferred shortcut and click **Next**.

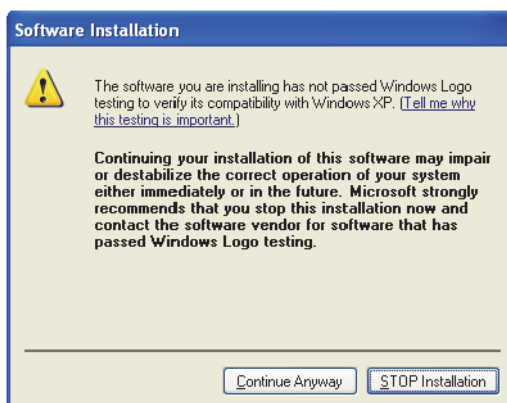
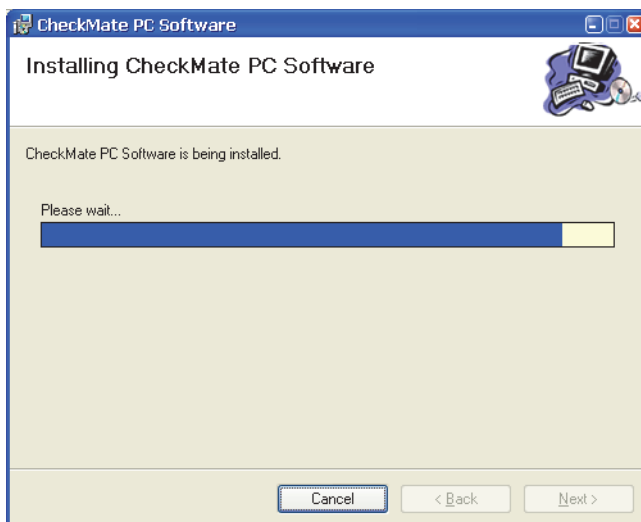
- We recommend that you install the program in the folder proposed by the installer.



Click **Next**.

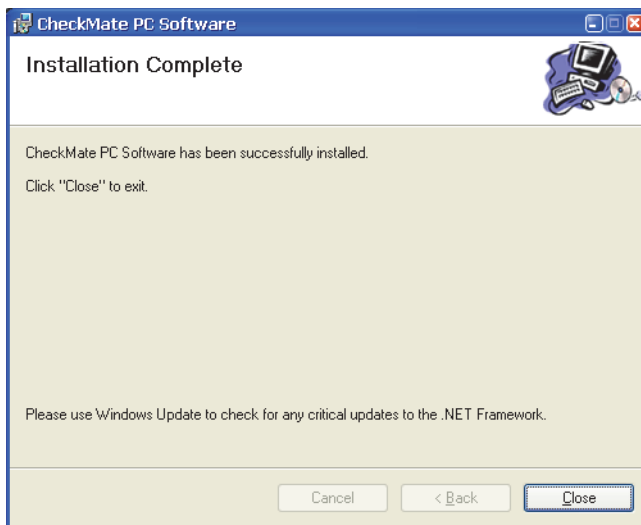


- Click **Next** to start the installation.



- Click **Continue Anyway**.

- When this window appears...



...click **Close**.

- The software has been successfully installed.
- Verify that an application short-cut has been placed on your desktop.



3. Using the Software

General



The easy-to-use **CheckMate PC Software** enables the control of several CheckMate II and/or CheckMate 3 units in a production environment.

The PC software makes it easy to create and manage users and products, to set up product measurement details and to monitor general device settings.

During the day all measurement data can continuously be transferred from the analyzer to the application's database and at the end of the day all collected data can be exported for further analysis.

The setup of products and users and the administration of measuring data can be performed from the **CheckMate PC Software**.

The following issues are described in this section:

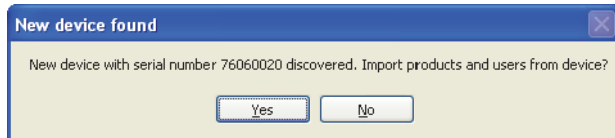
- PC User/Login setup
- Device setup
- Products setup
- Users setup
- Management of measurement data
- Database maintenance

Starting the application



To start the application simply double-click the **CheckMate PC Software** icon on your desktop or select **Start -> All Programs -> PBI-Dansensor -> CheckMate PC Software**.

The application starts and if a CheckMate device has been connected the following message will appear:



Click **Yes** to start synchronization.

Login

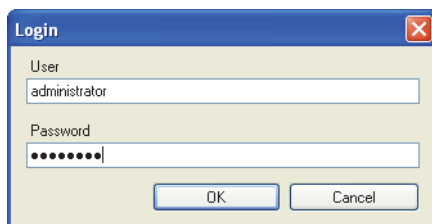
To be able to perform any changes to the device settings, product setup or user setup, you must be logged in.

The default user must be used the first time at login. The default user has the following login properties:

User: administrator

Password: password

To log in click **Login** in the upper right hand corner. In the appearing login window...



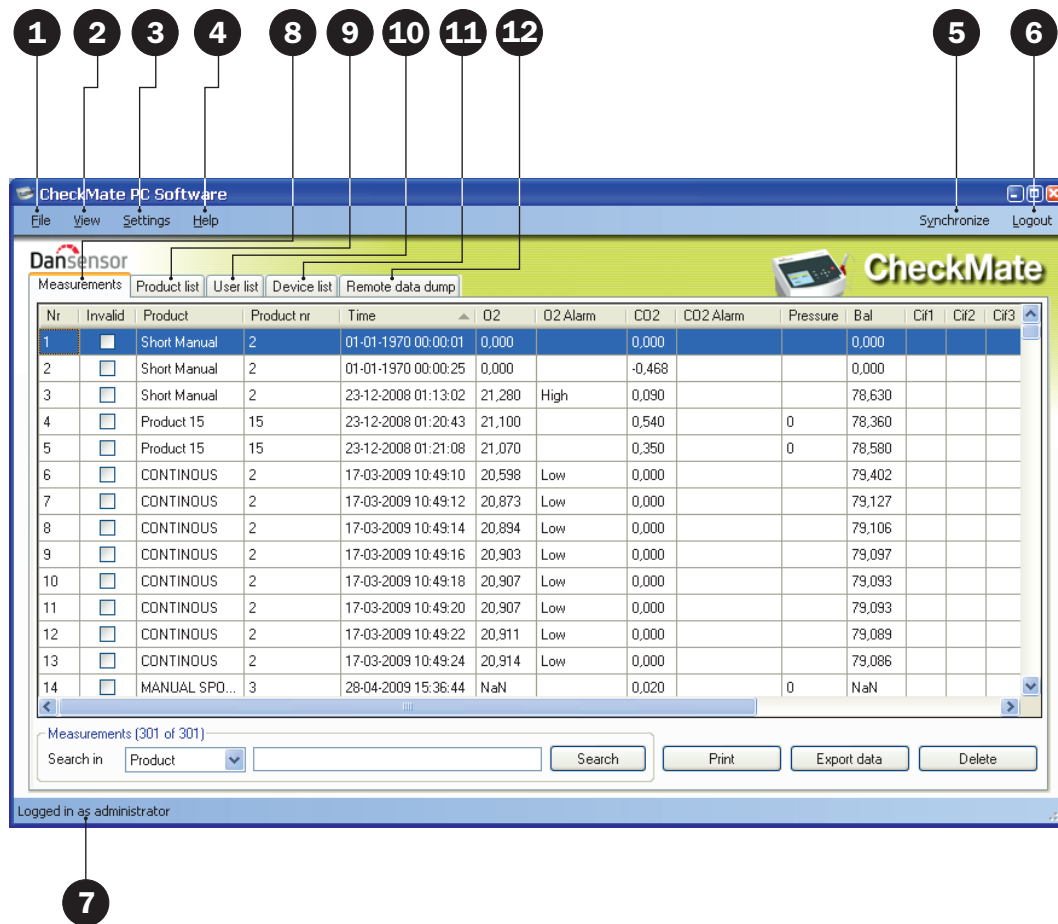
...enter the required **User** and **Password** and click **OK**.

As indicated in the application's lower left corner you are now logged in as **administrator**.



Now you are able to create one or more new users and set up different user rights if required. See "Application User Management" on page 20 for details.

Application Overview



1 File

The **File** menu holds the following entries:

Import Products...

Import products from existing database.
See "Product Import" on page 30 for details.

Exit

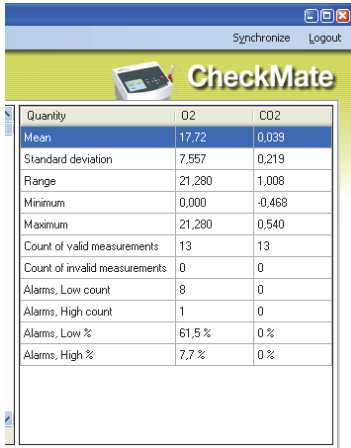
Closes the application.

2 View

The **View** menu holds the following entries:

Show measurements statistics

Shows statistics at the right side of the screen while working on measurements tab.



Quantity	O2	CO2
Mean	17,72	0,039
Standard deviation	7,557	0,219
Range	21,280	1,008
Minimum	0,000	-0,468
Maximum	21,280	0,540
Count of valid measurements	13	13
Count of invalid measurements	0	0
Alarms, Low count	8	0
Alarms, High count	1	0
Alarms, Low %	61,5 %	0 %
Alarms, High %	7,7 %	0 %

3 Settings

The **Settings** menu holds the following entries:

Language

Select application language.

Options

User login setup

CreatePC application users and set up different rights if required. See "Application User Management" on page 20 for details.

Database setup

Selection of database containing measurement data. Either local database (default) or external SQL server. See "Database Management" on page 23 for details on back-up of databases.

Remote data dump

Run server on application startup

Select whether or not you want the **Remote data dump** function to start up automatically when launching the application. See "Remote Data Dump Function" on page 40 for details.

Formats

Time

Select time format (12h or 24h)

Date

Select date format (DD/MM/YYYY or MM/DD/YYYY)

Pressure

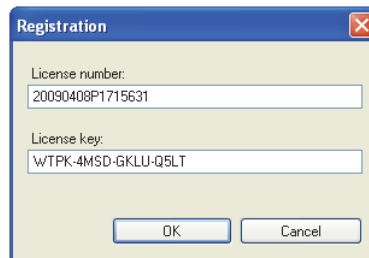
Select pressure read-out unit (Bar or Psi)

4 Help

The **Help** menu holds the following entries:

Register

After installation the program is valid for 30 days free of charge. At the end of the evaluation period the **Registration** window will appear.



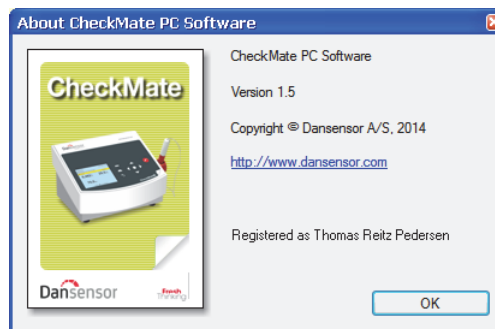
To register enter **License number** and **License key** and press **OK**.



NOTE! Using the application beyond the evaluation period will not be possible.

About

Displays the currently installed version of the software.



5 Synchronize

Synchronization of the data on the currently selected tab with the connected device(s)
See "Data Synchronization" on page 19 for details.

6 Login/Logout

Log in to the application to be able to perform any changes to the device settings or the product or user setups.

To change user first click **Logout** and then **Login** again.

7 Not logged in/Logged in as...

Display of current login status.

8 Measurements tab

Managing of measurement data - see "Measurement Data" on page 24 for details.

9 Product list tab

Managing of products - see "Product Setup" on page 28 for details.

10 User list tab

Managing of device users - see "Device User Management" on page 37 for details.

11 Device list tab

Overview of and information about currently and previously connected devices - see "Device list" on page 38 for details.

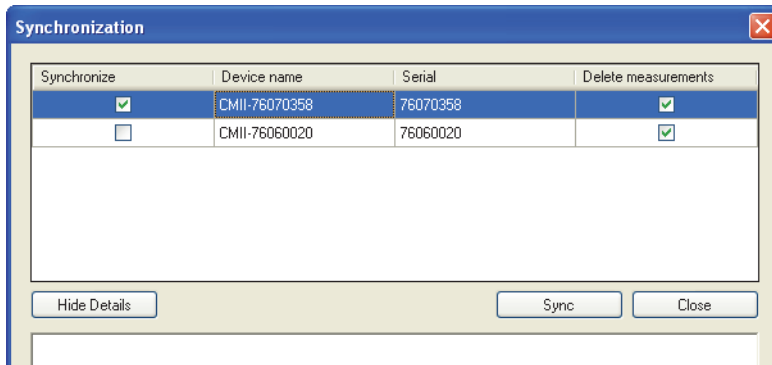
12 Remote data dump tab

Make settings for the **Remote data dump** function - see "Remote Data Dump Function" on page 40 for details.

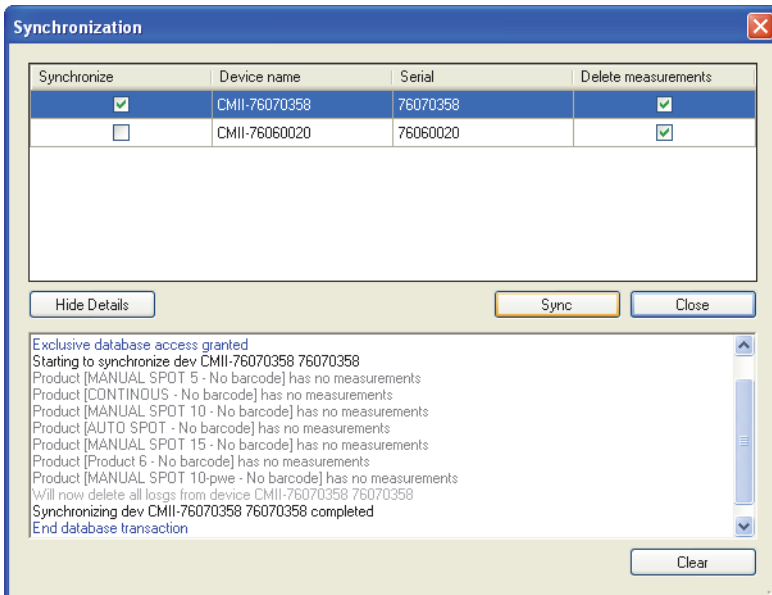
Data Synchronization

You can manually synchronize all data with any of the connected devices. To do so follow procedure below:

- Click **Synchronize** in the upper right hand corner. The **Synchronization** window will appear.



- The connected devices are shown with **Device name** and **Serial** number.
- In the **Synchronize** column select device(s) for which you want to perform the synchronization.
- In the **Delete measurements** column select whether or not you want to delete synchronized data from the currently selected device(s) after upload to the application.
- Click **Sync**.



- When synchronization has finished click **Close**.

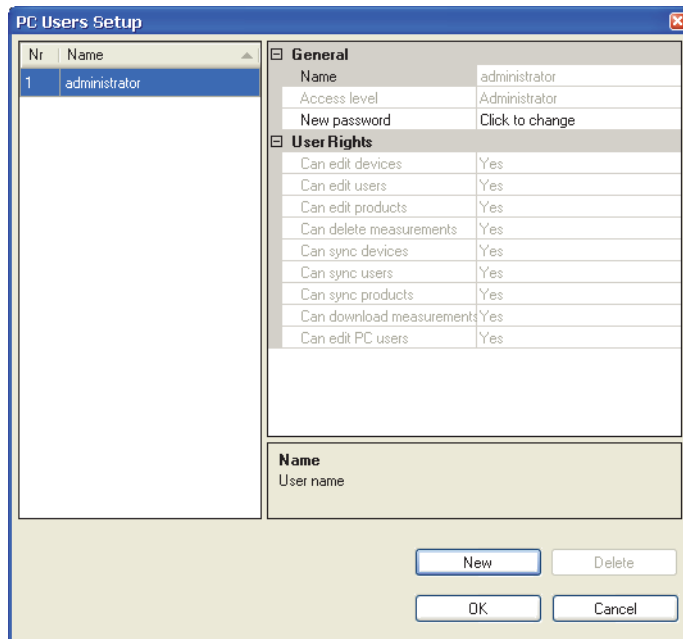
Application User Management

Several users with various levels of access rights can be created.
The default user must be used the first time at login - see "Login" on page 14 for details.

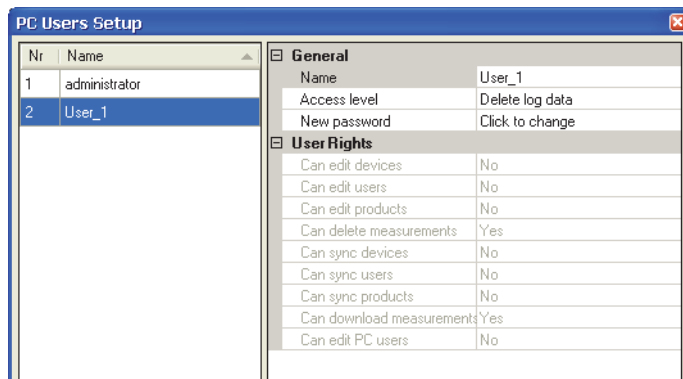
Create User

To create a new user and set up the respective user rights do the following:

1. Select **Settings -> Options -> User login setup...**
This will open the **PC Users Setup** window.

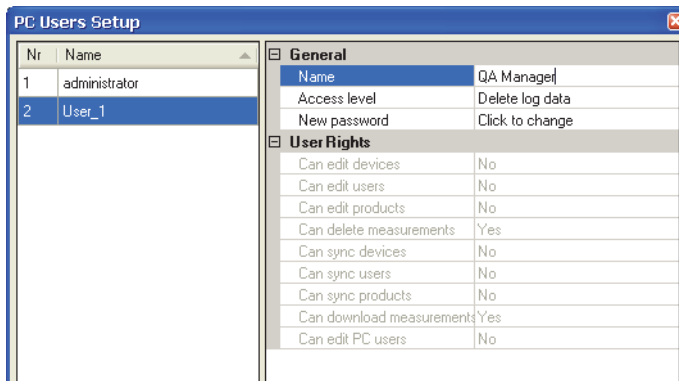


2. Click **New** to create a new user.

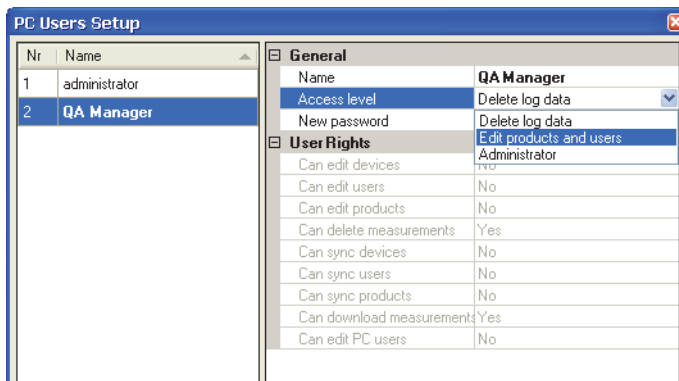


A new user named **User_X** will be added to the users list.

3. To edit user's name place cursor in the **Name** field and change name to ex. **QA Manager**.



4. Select user's access rights using the **Access level** drop-down menu, ex. **Edit products and users**.

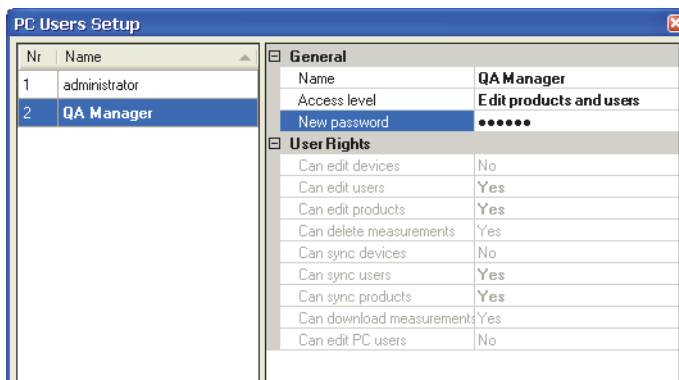


The corresponding user rights are listed in the **User Rights** section.

5. To create password click **Click to change** in the **New password** field.



Enter password information as required and click **OK**.

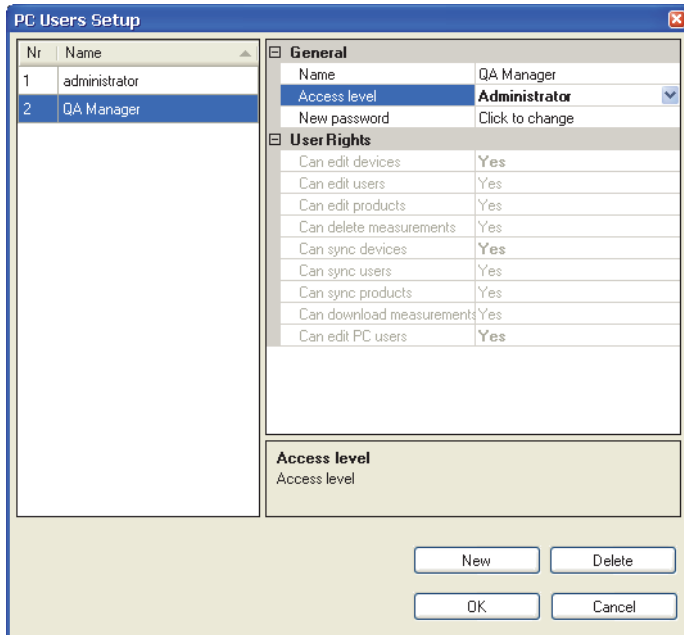


6. Click **OK** to close window.

Edit/Delete User

To edit a user's settings do the following:

- Select **Settings -> Options -> User login setup...**



- In the appearing **PC Users Setup** window select user in the user list and make required changes to the settings in the **General** section.
Changes made to the **Access level** automatically changes the corresponding **User Rights**.
- To delete a user, simply select it in the user list and click **Delete**.



NOTE! User will be deleted at once, you will not be asked to confirm.

- When finished click **OK** to close window.

Database Management

The default installation of the CheckMate PC software also creates databases needed for the program to run properly.

The databases are located in the program installation folder in a subfolder named **Database**.

The databases are separated into two files:

- Configuration** This file contains the program settings, product data, user data and device information. It is possible to copy this file to another PC with CheckMate PC Software installed to have the same settings (not shared).
- Measurements** This file contains all measurements captured by the program. This database can be selected for location on an existing SQL server if available on the network. This way the measurements can be backed up centrally by the SQL server manager

Backup of Databases



NOTE! This should only be done by personnel familiar with Windows PC file copying.

- Close application before proceeding.
- Now use the **Windows Explorer** to browse to the **Database** folder in the program installation folder.
- Copy the 2 database files to a safe location on your network for backup purposes.



NOTE! If you have selected an external SQL server in Database settings, you can only backup the configuration database manually. The SQL server manager must ensure measurements database integrity by regular backups of the server.

Restoring Databases



CAUTION! This should only be done by personnel familiar with Windows PC file copying, as wrong operation may lead to data loss.

- Close application before proceeding.
- To restore the database(s), simply copy the database files from your backup location into the installation folder's **Database** folder.
- Restarting the application will load the restored data files.

Measurement Data

The collection of measurement data can be viewed on the **Measurements** tab.

Nr	Invalid	Product	Product nr	Time	O2	O2 Alarm	CO2	CO2 Alarm	Pressure	Bal	Cif1	Cif2	Cif3
1	<input checked="" type="checkbox"/>	Short Manual	2	01-01-1970 00:00:01	0,000		0,000			0,000			
2	<input type="checkbox"/>	Short Manual	2	01-01-1970 00:00:25	0,000		-0,468			0,000			
3	<input type="checkbox"/>	Short Manual	2	23-12-2008 01:13:02	21,280	High	0,090			78,630			
4	<input type="checkbox"/>	Product 15	15	23-12-2008 01:20:43	21,100		0,540		0	78,360			
5	<input type="checkbox"/>	Product 15	15	23-12-2008 01:21:08	21,070		0,350		0	78,580			
6	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:10	20,598	Low	0,000			79,402			
7	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:12	20,873	Low	0,000			79,127			
8	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:14	20,894	Low	0,000			79,106			
9	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:16	20,903	Low	0,000			79,097			
10	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:18	20,907	Low	0,000			79,093			
11	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:20	20,907	Low	0,000			79,093			
12	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:22	20,911	Low	0,000			79,089			
13	<input type="checkbox"/>	CONTINUOUS	2	17-03-2009 10:49:24	20,914	Low	0,000			79,086			
14	<input type="checkbox"/>	MANUAL SPD...	3	28-04-2009 15:36:44	NaN		0,020		0	NaN			

All measurement data downloaded from all connected devices is listed here.

Invalid measurements

Measurements stored as invalid on **CheckMate 3** devices are downloaded and marked as such in the **Invalid** column.

Measurements downloaded from **CheckMate II** devices are automatically marked as valid (not checked) as these devices do not support the invalid measurements function.

Searching Data

With the **Search** function at the bottom you can search in all fields.

When searching please note the following:

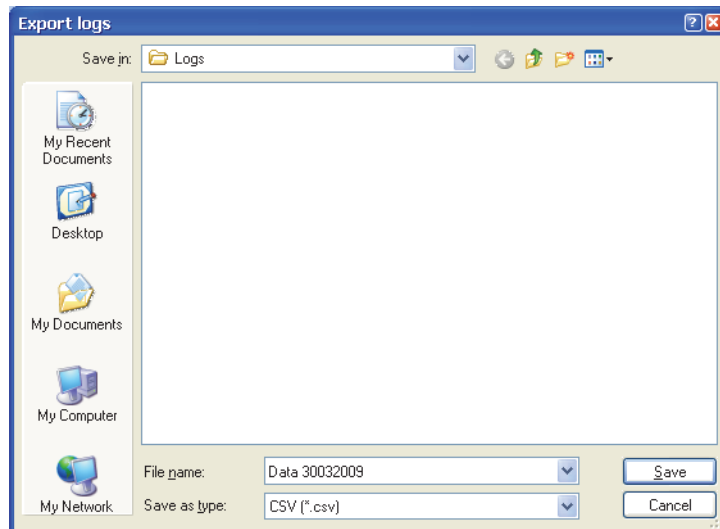
- First select which field to search in from the **Search in** drop down list, ex. **Product**.
- Use "*" as wildcard when searching, otherwise you will have to write the exact contents of the field. When entering ex. "s*" in the search field you will get a list of all products starting with **s**. When entering "*s*" in the search field you will get a list of products with an **s** anywhere in the name. Please note that the search function is not case sensitive.

Exporting Data

You can export selected data to a comma separated file (*.csv).

To export data do the following:

1. Select data to be exported from the list and click **Export data**.
2. The **Export logs** dialog window appears showing the folder **Logs** which is a subfolder in the application installation folder.

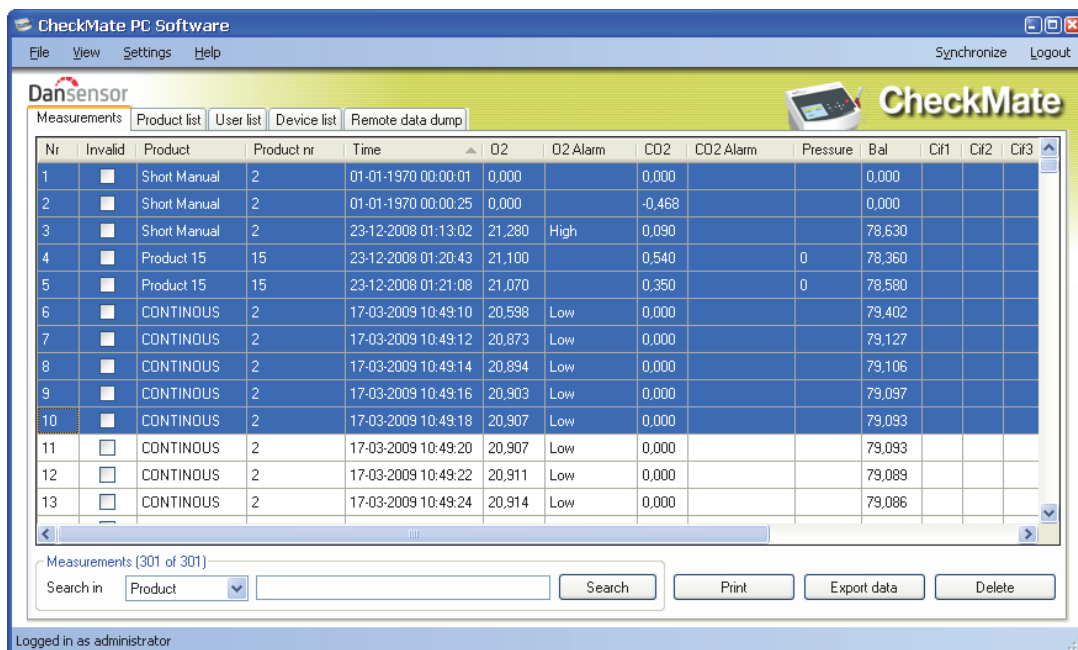


3. You can use this folder for your data files or select any other folder of your own choice.
4. Name the file in the **File name** field.
5. Select export format in the **Save as type** drop-down list.
6. Click **Save**.

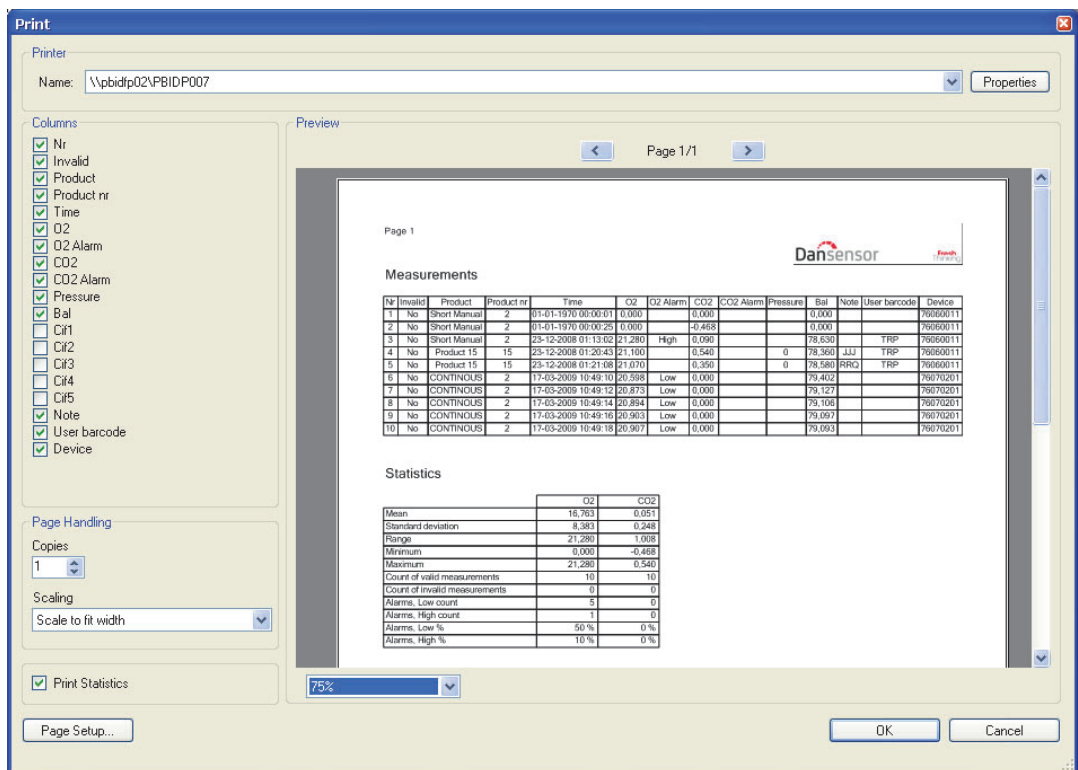
Printing Data

To print data do the following:

1. Select data to be printed from the list.



2. Click **Print**.
3. The **Print** preview window appears.



- In the **Columns** section you can select which columns to include when printing and with the **Print Statistics** checkbox below you can select whether or not you want to print the statistics data as well. Selection/deselection of one or more items will automatically update the print preview.
- Select printer at the top of the window, make required page setup settings and click **OK** to print.

Statistics

To see a statistical overview of data:

- If not already displayed, select **View -> Show measurements statistics**. Measurement statistics will be displayed at the right side of the window.

The screenshot shows the CheckMate PC Software interface. The main window displays a table of measurements with columns for Nr, Invalid, Product, Product nr, Time, O2, O2 Alarm, and CO2. The right side of the window shows a statistics panel for the selected data (rows 1-10). The statistics panel includes the following data:

Quantity	O2	CO2
Mean	16,763	0,051
Standard deviation	8,383	0,248
Range	21,280	1,008
Minimum	0,000	-0,468
Maximum	21,280	0,540
Count of valid measurements	10	10
Count of invalid measurements	0	0
Alarms, Low count	5	0
Alarms, High count	1	0
Alarms, Low %	50 %	0 %
Alarms, High %	10 %	0 %

At the bottom of the window, there is a search bar with a dropdown menu set to 'Product', a search button, and buttons for 'Print', 'Export data', and 'Delete'. The status bar at the bottom indicates 'Logged in as administrator'.

- Select data, ex. 10 measurements as shown.
- The statistics for the selected measurements will be shown, ex. minimum and maximum values, number and percentage of alarms etc.

The data can be printed by clicking **Print** – see "Printing Data" on page 26 for details.



NOTE! Values from measurements marked as invalid will not be used for the statistics calculations.

Product Setup

Product setup is performed on the **Product list** tab. Even though the product database can hold a large number of products, only a limited number of different products can be assigned to each device (CheckMate II = 500, CheckMate 3 = 1000).



NOTE! When making changes in the product settings, make sure to press "Synchronize" in the upper right corner when finished to apply changes to selected device(s).

The screenshot shows the CheckMate PC Software interface. The 'Product list' tab is active, displaying a table with columns for 'Nr', 'Product name', and four device IDs: CMII-7607035, CMII-7606002, CMII-7607020, and CMII-7606011. The table lists 17 products, with checkboxes indicating their assignment to each device. The 'General' settings panel on the right shows details for the selected product 'AUTO SPOT', including Barcode, Number, Measure mode, Sample time, Display gases, Customer fields, and Alarms. Buttons for 'Copy', 'New', 'Save', and 'Delete' are visible at the bottom of the interface.

Nr	Product name	CMII-7607035	CMII-7606002	CMII-7607020	CMII-7606011
1	AUTO SPOT	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
2	CONTINUOUS	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
3	Long Auto	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
4	Long Continues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
5	Long Intermitted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
6	Long Manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
7	MANUAL SPOT	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
8	MANUAL SPOT 10	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
9	MANUAL SPOT 10...	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
10	MANUAL SPOT 15	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
11	MANUAL SPOT 5	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
12	Medium Auto	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
13	Medium Continues	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
14	Medium Intermitted	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
15	Medium Manual	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
16	Product 1	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
17	Product 3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

Create/Edit Product

From the start 25 default products (Product_1....Product_25) have been created. To create a new product you can either edit one of the default products or you can create a new.

Create new product

- Click **New** in the lower right corner. A new product appears at the bottom of the product list.
- Edit product settings as described in "Edit product" on page 29.
- When finished click **Save** to save product.

Copy product

If you want to create a product similar to an already existing product, you can use the **Copy** function:

- Select the product you want to copy in the list.
- Click the **Copy** button.
- A new product with the name **xxxxx_copy_1** (xxxxx = name of copied product) appears in the list.
- Name the new product and make the appropriate product settings in the list to the right.
- When finished click **Save** to save product.

Edit product

- Select the product you want to edit in the list.
- Make the appropriate product settings in the list to the right.



NOTE! Please refer to the “CheckMate User Guide” for a detailed description of the various product parameter settings.

- When finished click **Save** to save product.

Delete Product

To delete a product from the **Product list**:

1. First make sure that the product and the product measurements have been removed from the CheckMate device; otherwise the product will be downloaded from the device next time when synchronizing.
2. Select product and click **Delete**, then confirm by clicking **OK** in the appearing dialog box.
3. Synchronize devices to update the respective product lists on the devices.

Product Import

The product import feature can be used to import your own products from an already existing database and customize the imported product data.

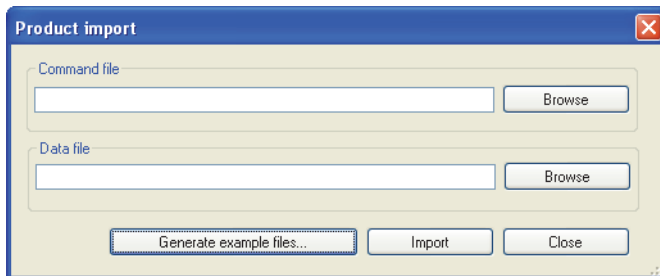
To use this function, two files must be created before import can take place:

- A **Command file** which informs which fields and settings to use.
- A **Data file** which holds a data extract in ***.csv** file format from your own database.

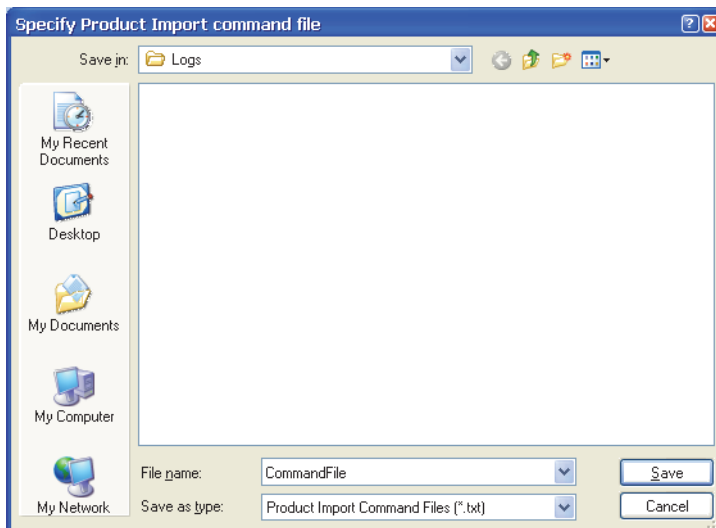
The command file specifies which data to import from the data file and also which other product specific settings to generate inside the product settings database of the CheckMate PC software.

To assist first time users a simple example generator is provided:

- Select **File -> Import Products...**
The **Product Import** window appears.

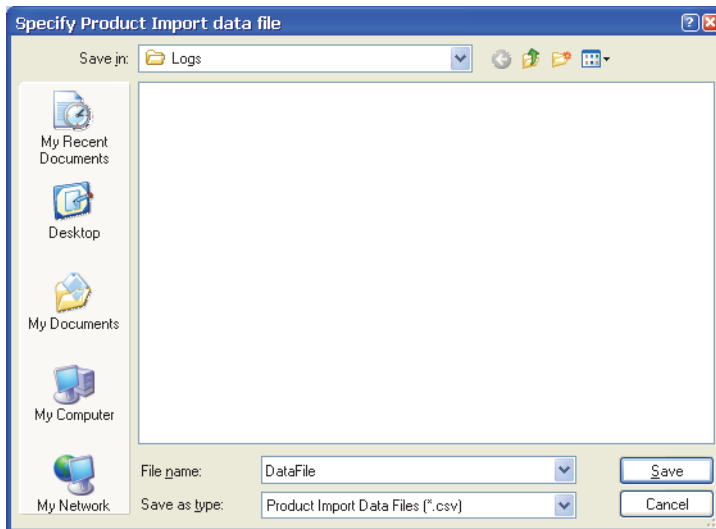


- Click **Generate example files...** to auto generate a set of import files which shows their usage.
- The appearing pop-up dialog asks for a file name for the **Command file**.



Enter e.g. **CommandFile** and click **Save**.

- Next pop-up dialog asks for a file name for the **Data file**.



Enter e.g. **DataFile** and click **Save**.

- In the **Product import** window click **Close**.
- Use **Windows Explorer** to browse to the location of the files for viewing them in a text editor such as **Notepad**. This will help you understand the command set of the command file.

Command file

The command file must contain some initial information that describes the data file list separator (*.csv file data separator) and the decimal number separator used “,” or “.”

See the example command file printout below:

```
#This and following lines that start with '#' symbol are ignored during product import
```

```
field separator = ";"
number decimal separator = ","

[template : 1]
Product name = $(Name)
Number = $(Number)
Barcode = $(EAN)
Measure mode = $(Measure Mode)
Sample time = 10,1
Measure O2 = Yes
Measure CO2 = Yes
Measure balance = Yes
Measure pressure = $(Measure Pressure)
Note = $(Note)
CIF1 = Once
CIF2 = Always
CIF3 = Off
CIF4 = Off
CIF5 = Off
Alarm 1 Mode = High
Alarm 1 Gas = O2
Alarm 1 Value = $(Alarm 1 Value)
Alarm 2 Mode = High
Alarm 2 Gas = CO2
Alarm 2 Value = 78,35
Alarm 3 Mode = Low
Alarm 3 Gas = O2
Alarm 3 Value = 18,25
Alarm 4 Mode = Low
Alarm 4 Gas = CO2
Alarm 4 Value = 8,15
Alarm 5 Mode = Off
Alarm 6 Mode = Off
```

```
[template : 2]
Product name = $(Name)-$(Number)
Number = $(Number)
Barcode = $(EAN)
Measure mode = Intermittent
Sample time = 10,1
Measure O2 = Yes
Measure CO2 = Yes
Measure balance = Yes
Measure pressure = No
Note = $(Note)
CIF1 = Once
CIF2 = Always
CIF3 = Off
CIF4 = Off
CIF5 = Off
Alarm 1 Mode = Off
Alarm 2 Mode = Off
Alarm 3 Mode = Off
Alarm 4 Mode = Off
Alarm 5 Mode = Off
Alarm 6 Mode = Off
```

After this an import template must be defined which specifies how the imported data should be combined with CheckMate product setup data to ensure that products are imported properly with correct settings for measuring time and similar data.

Each template must start with a template header **[template : 1]** which references the template.

This number is used later in the data file to select the import template.

Fields that are not in the template are left in default state during import by the PC software.

Variable data from data files are referenced by syntax **\$(Text)** where **Text** equals the column name of the data inside the data file.

Please note that you can add comments to the command file by starting the string with #.

Example: # This is a comment, which is not processed during import.

This system ensures very flexible import of already existing data combining these with settings needed in the CheckMate product data.

Explanation of [template : 1]

Product name is taken from the data file Name column

Product number is taken from the data file Number column

Product barcode is taken from the data file Barcode column

Measure mode is taken from the data file Measure Mode column

Sample time is set to 10.1 seconds fixed for all imported products

Measure O2 = Yes fixed for all imported products

Measure CO2 = Yes fixed for all imported products

Measure balance = Yes fixed for all imported products

Note = \$(Note) is taken from the data file Note column

CIF1 = Once fixed for all imported products

CIF2 = Always fixed for all imported products

CIF3 = Off fixed for all imported products

CIF4 = Off fixed for all imported products

CIF5 = Off fixed for all imported products

Alarm 1 Mode = High fixed for all imported products

Alarm 1 Gas = O2 fixed for all imported products

Alarm 1 Value = \$(Alarm 1 Value) is taken from data file Alarm 1 Value column

Alarm 2 Mode = High fixed for all imported products

Alarm 2 Gas = CO2 fixed for all imported products

Alarm 2 Value = 78,35 fixed for all imported products

Alarm 3 Mode = Low fixed for all imported products

Alarm 3 Gas = O2 fixed for all imported products

Alarm 3 Value = 18,25 fixed for all imported products

Alarm 4 Mode = Low fixed for all imported products

Alarm 4 Gas = CO2 fixed for all imported products

Alarm 4 Value = 8,15 fixed for all imported products

Alarm 5 Mode = Off fixed for all imported products

Alarm 6 Mode = Off fixed for all imported products

Datafile

The contents of the example datafile is listed below:

```
template; Name; Number; EAN; Measure Mode; Measure Pressure; Note; AI arm 1 Value
1; a; 1; 11111111; Auto Spot; Yes; AI ways; 88, 6
1; b; 2; 22222222; Continuous; Yes; AI ways; 81, 1
1; c; 3; 33333333; Intermittent; Yes; Free; 89
2; d; 4; 44444444; Manual Spot; No; Off; 0
```

Here you can see that each column has its own header text used when referencing the value inside the command file.

Also notice that the first three products use template 1 and the last product uses template 2.

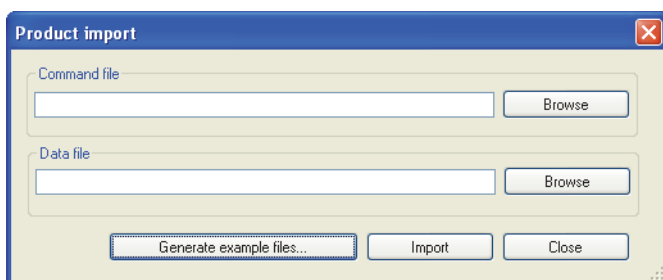
This way you can select different import of products from the same data source.

Importing products

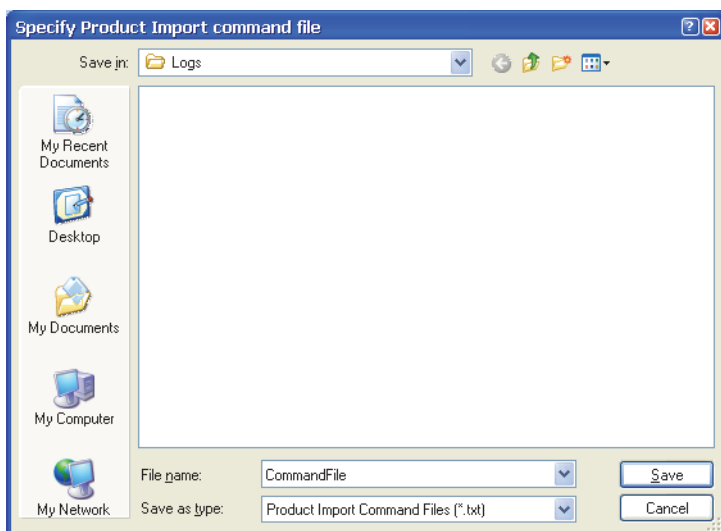
Try importing products using the two example files:

- Select **File -> Import Products...**

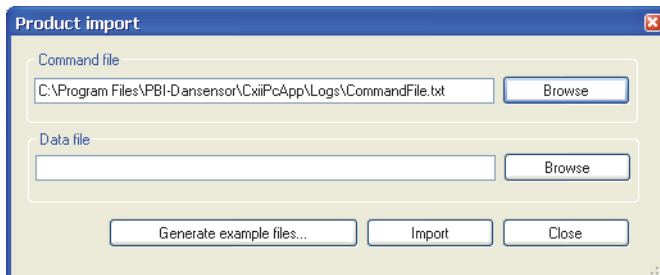
The **Product Import** window appears.



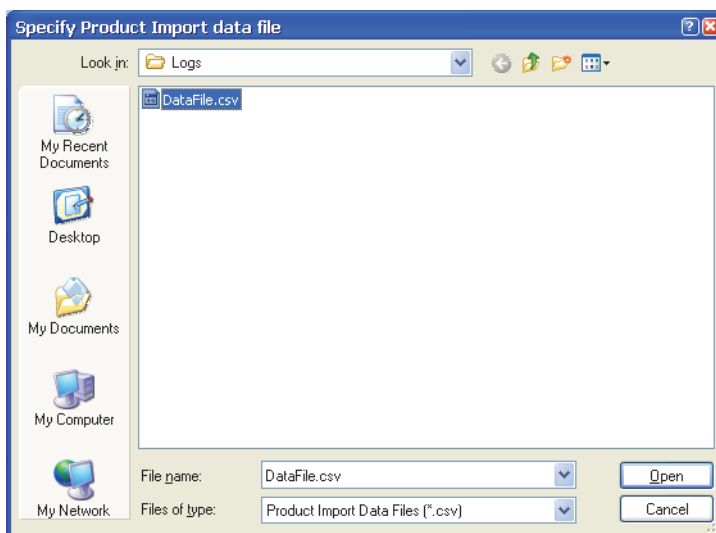
- Select **Command file** by clicking **Browse** and then browse to the folder where you previously saved the file.



Select file and click **Open**.

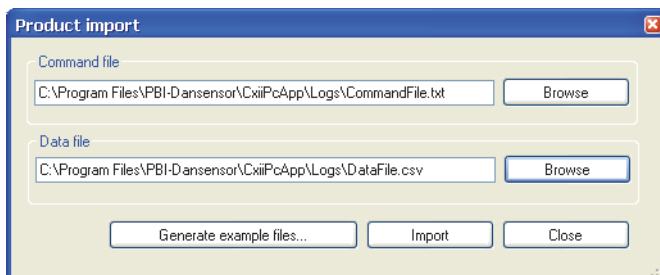


- Now select **Data file** by clicking **Browse** and then browse to the folder where you previously saved the file.

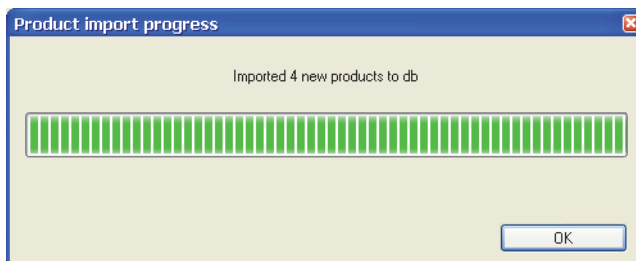


Select file and click **Open**.

- Having selected both import files...

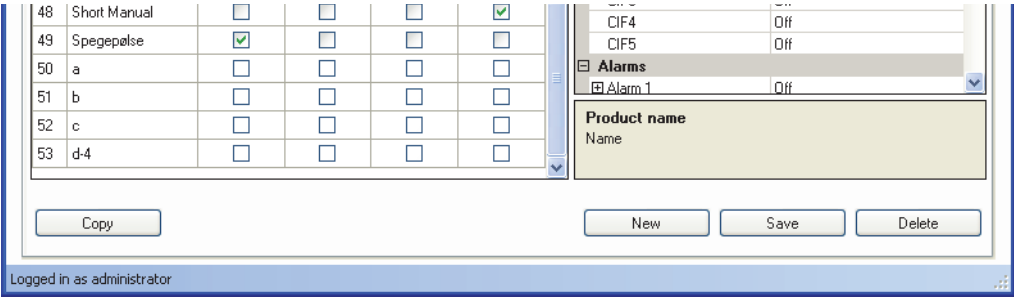


...click **Import**.



- Click **OK**.

- Now the 4 products from the data file has been added at the bottom of the product list.

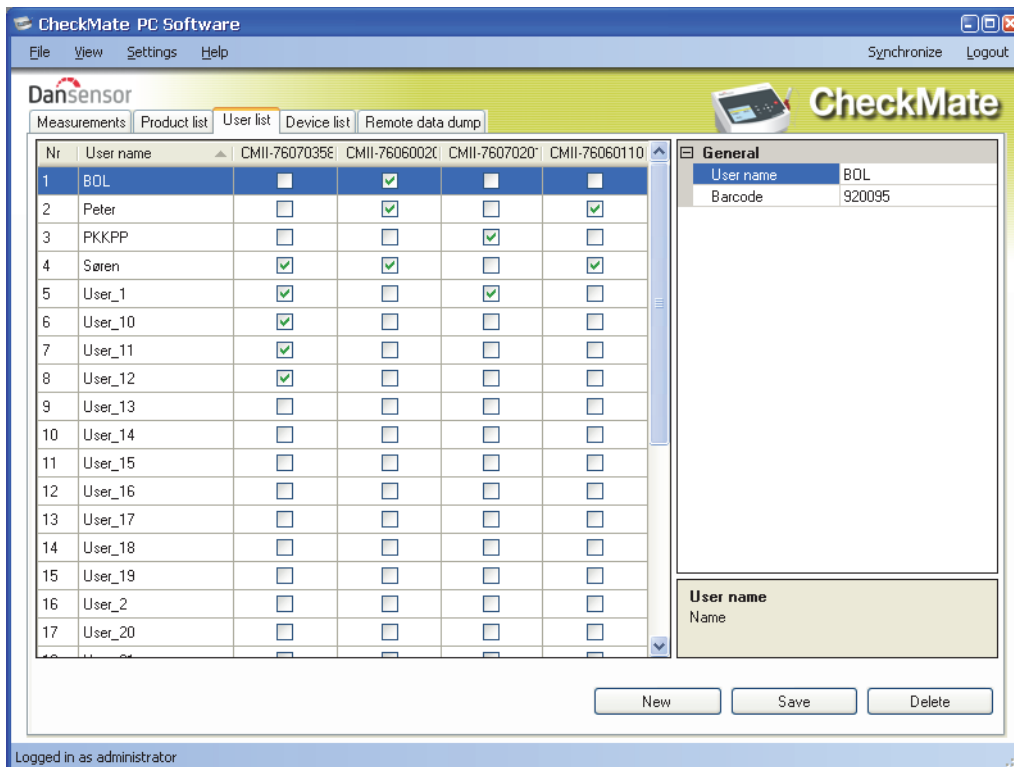


Device User Management

Device users are managed on the **User list** tab. Even though the user database can hold a large number of users, only a limited number of different users can be assigned to each device (CheckMate II = 50, CheckMate 3 = 250).



NOTE! When making changes in the user settings, make sure to press "Synchronize" in the upper right corner when finished to apply changes to selected device(s).



Create/Edit User

From the start 25 default users (User_1....User_25) have been created.

To create a new user you can either edit one of the default users or you can create a new, by clicking **New** in the lower right corner. A new user appears at the bottom of the user list.

Edit **User name** and **Barcode** ID in the list to the right as required.

When finished click **Save** to save user.



NOTE! Please refer to the "CheckMate User Guide" for a detailed description of the various user login settings on the device.

Delete User

To delete a user from the **User list**, select it in the list and click **Delete**, then confirm by clicking **OK** in the appearing dialog box.

Click **Synchronize** to update the respective user lists on the devices.

Device list

The **Device list** tab shows an overview of devices which are or previously have been connected to the application.

Nr	Device name	Serial number	Is connected
1	CMII-76060020	76060020	Yes via TCP/IP
2	CMII-76060110	76060110	No
3	CMII-76070201	76070201	Yes via TCP/IP
4	CMII-76070358	76070358	No

Info	
Device name	CMII-76060020
Serial number	76060020
SW version	V2.14 TEST
Last connection time	27-03-2009 11:04
Is connected	Yes via TCP/IP
IP Address	172.25.2.111
Device date/time	27-03-2009 12:05

Diagnostics	
On time	81 days
Pump On Time	15:51:00
Heater On Time	82 days
Fan On Time	81 days
O2 measuring time	81 days
O2 time to calibration	315 days
CO2 measuring time	49 days
CO2 time to calibration	315 days

Calibration	
<input checked="" type="checkbox"/> O2 Calibration 1	02-10-2008; 20.946 %
<input checked="" type="checkbox"/> O2 Calibration 2	02-10-2008; 1 %
<input checked="" type="checkbox"/> O2 Calibration 3	02-10-2008; 0,1 %
<input checked="" type="checkbox"/> O2 Calibration 4	02-10-2008; 0,005 %
<input checked="" type="checkbox"/> O2 Calibration 5	02-10-2008; 80,04 %
<input checked="" type="checkbox"/> CO2 Calibration 1	02-10-2008; 25,21 %

Device name
Device name (Only in database)

Save Delete

Logged in as administrator

The window shows the name and serial number for each device and the current connection status. The device window also holds data for each device such as device info, diagnostics, and calibration information.

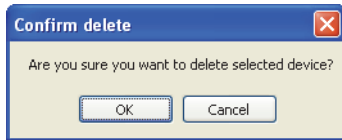
When a device sensor needs to be calibrated the sensor is highlighted in red.

Fan On Time	81 days
O2 measuring time	81 days
O2 time to calibration	0 days
CO2 measuring time	49 days
CO2 time to calibration	315 days

Remove device

To remove a device from the list simply click on the device you wish to remove and then click **Delete** in the window's lower right corner.

In the appearing **Confirm delete** window...



...click **OK** to confirm.

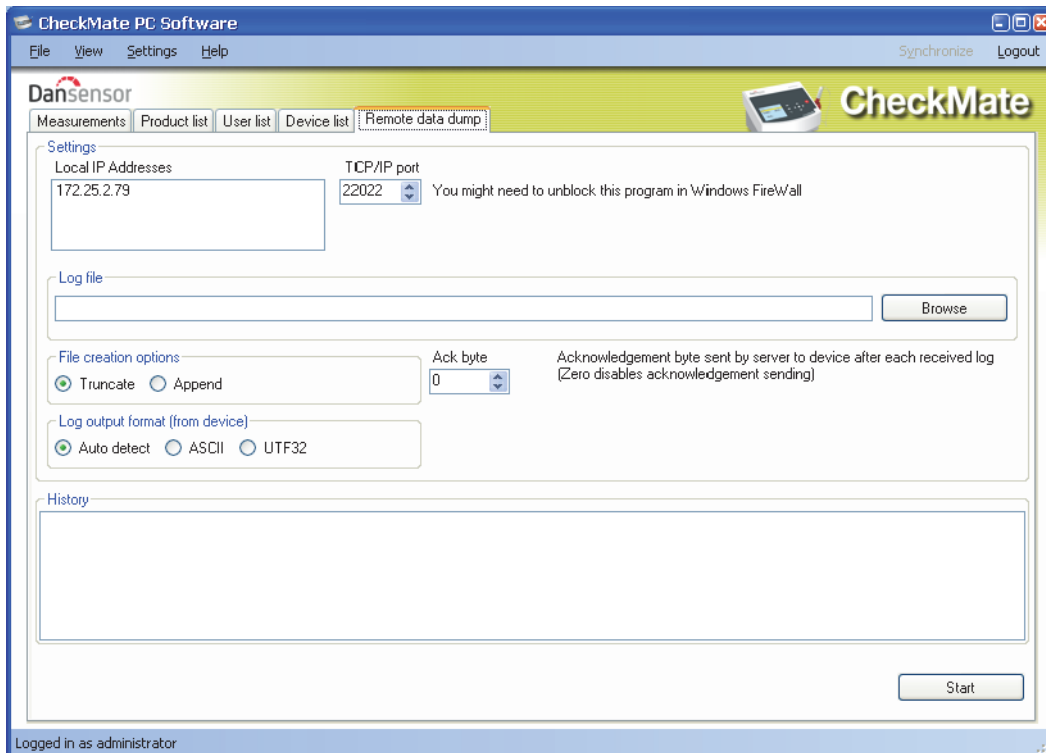
The device will be removed from the various tabs throughout the application but measurements performed using the device are maintained on the **Measurements** tab.

Remote Data Dump Function

This feature is a separate function that allows you to use the advanced LAN data dump functionality of the CheckMate device.

To be able to use this feature, the CheckMate must be configured for the function inside the **General setup -> Data log setup ...** menu.

Please refer to the "CheckMate User Guide" for details about setting up of the LAN dump function.



When starting this, the PC software will act as a TCP/IP server which can receive data from multiple CheckMate devices and store data in a selected file using the *.csv file format for easy exchange with other applications.



NOTE! The data received from devices is NOT stored in the database of the CheckMate PC software but only transferred directly to the *.csv file.

The window holds data needed to set up the CheckMate devices which should send data to the program. You will find the data in the upper part of the window:

- Local IP Addresses** Holds the IP of the PC running this application. This value shall be entered in the CheckMate **General Setup -> Data log setup... -> Server IP** field.
- TCP/IP port** Holds the port number to be used. This value shall be entered in the CheckMate **General Setup -> Data log setup... -> Server Port** field
- Ack byte** Must match the setting in **General Setup -> Data log setup... -> Acknowledge** (default set to 0 = NOT used).

On the CheckMate device the setting **General Setup -> Data log setup... -> Network logging** must be set to **Yes**. This turns on the sending of data after each measurement to the server specified.

In the **Log file** section select a file name to be used for storing the data received.

In **File creation options** select between:

Truncate Opens a new file each time **Start** is pressed

Append Appends data to the file each time **Start** is pressed

Log output format (from device) should normally be set to **Auto detect**, reflects similar setting on the device.

In **History** panel the latest received measurements can be seen in clear text, this can be helpful if debugging the setup.

Now to start simply press the **Start** button and the server will run until stopped again by pressing **Stop**.

Data is captured into the selected file.

This function is similar to that found in programs like e.g. **TCP File**.

Trouble shooting



NOTE! Windows Firewall might block this function. If you have problems getting data from device try to disable the FireWall shortly, if data now appear in history window you should add an exclusion for the program in Windows FireWall. Refer to documentation from Microsoft on how to do this.

To test if LAN connection is OK between PC and CheckMate device, you can use the **Ping** command from your PC:

Open a command console in Windows and enter the command

ping <IP address of CheckMate> <enter>

Now you should get a TCP reply from the CheckMate, see example below. If this reply does not appear there is a problem in the LAN connection of either PC, CheckMate or both.

Re-check your cabling.

A screenshot of a Windows command prompt window. The title bar reads 'C:\WINDOWS\system32\cmd.exe'. The window content shows the following text:

```
Microsoft Windows XP [Version 5.1.2600]
(C) Copyright 1985-2001 Microsoft Corp.

C:\Documents and Settings\pwe>ping 172.25.2.97

Pinging 172.25.2.97 with 32 bytes of data:

Reply from 172.25.2.97: bytes=32 time<1ms TTL=64
Reply from 172.25.2.97: bytes=32 time<1ms TTL=64
Reply from 172.25.2.97: bytes=32 time<1ms TTL=64
Reply from 172.25.2.97: bytes=32 time<1ms TTL=64

Ping statistics for 172.25.2.97:
    Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
    Approximate round trip times in milli-seconds:
        Minimum = 0ms, Maximum = 0ms, Average = 0ms

C:\Documents and Settings\pwe>_
```


Appendix

End User License Agreement (EULA)

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