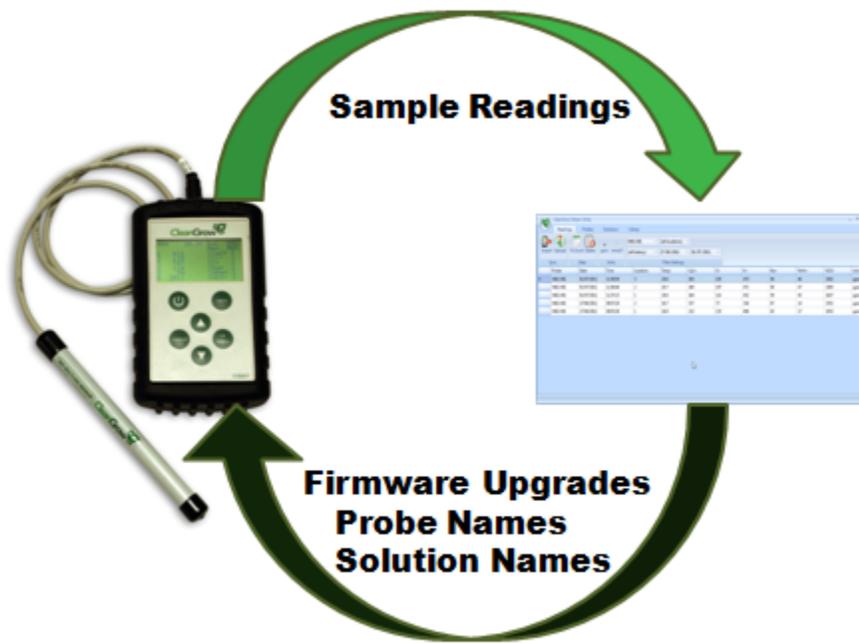


CleanGrow MeterLink Manual



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1. Installation

To install the CleanGrow MeterLink program, you will first need to download the installation file from the CleanGrow website. Go to <http://www.cleangrow.com/products/Software/Cleangrow-Software.html> and click on the link called “Download the Meterlink PC program here”.

Once the installation file has been downloaded, run the setup file, and follow the wizard to complete the installation.

2. MeterLink Functionality

The purpose of the CleanGrow MeterLink Program is to:

1. Register your probes and calibration solutions.
2. Download a list of your purchased probes from your CleanGrow account to the meterlink program.
3. Send the probe information to your meter. E.g. probe name and ions.
4. Download the calibration solution names and values from your CleanGrow account to the meterlink program.
5. Create your own calibration solutions.
6. Send calibration solution information to your meter.
7. Export data from the CleanGrow MeterLink to an Excel workbook.
8. Check for firmware updates for your meter and upgrade the meter firmware.

This functionality is explained in more detail below.

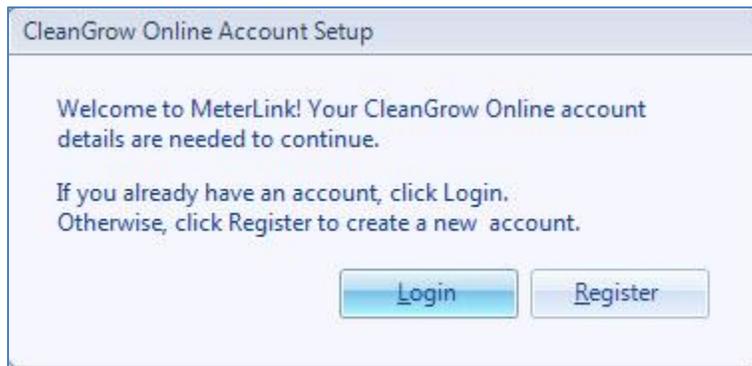
Open the CleanGrow MeterLink Program by double clicking on the icon on your desktop



2.1 Registration

When you first open the Meterlink program, you will be asked to set up an account and register your probe name(s) and calibration solutions.

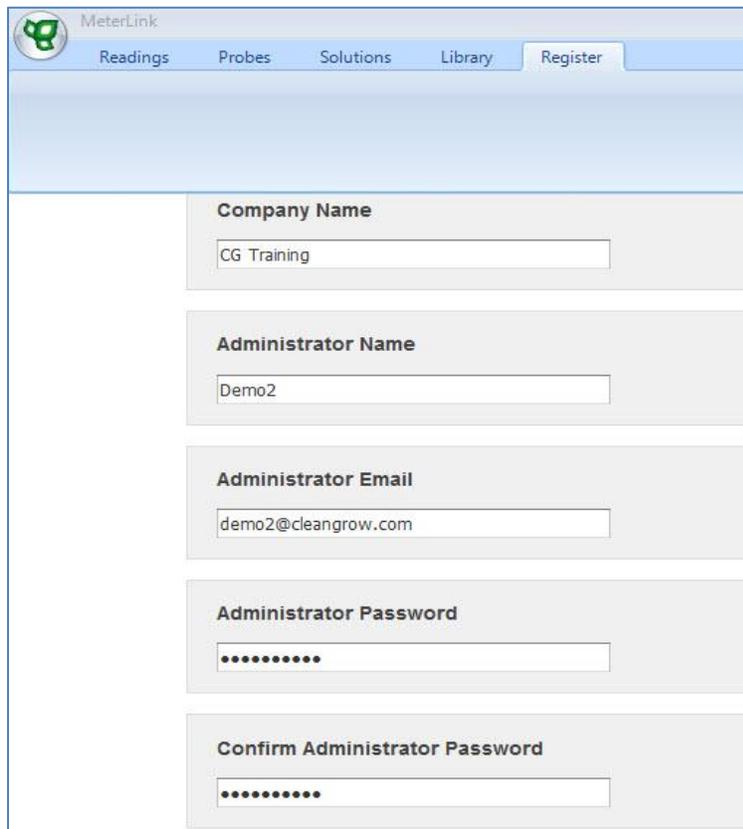
If you already have a username and password, click on the Login button, otherwise click on the Register button.



CleanGrow Online Account Setup

Welcome to MeterLink! Your CleanGrow Online account details are needed to continue.

If you already have an account, click Login.
Otherwise, click Register to create a new account.



MeterLink

Readings Probes Solutions Library Register

Company Name

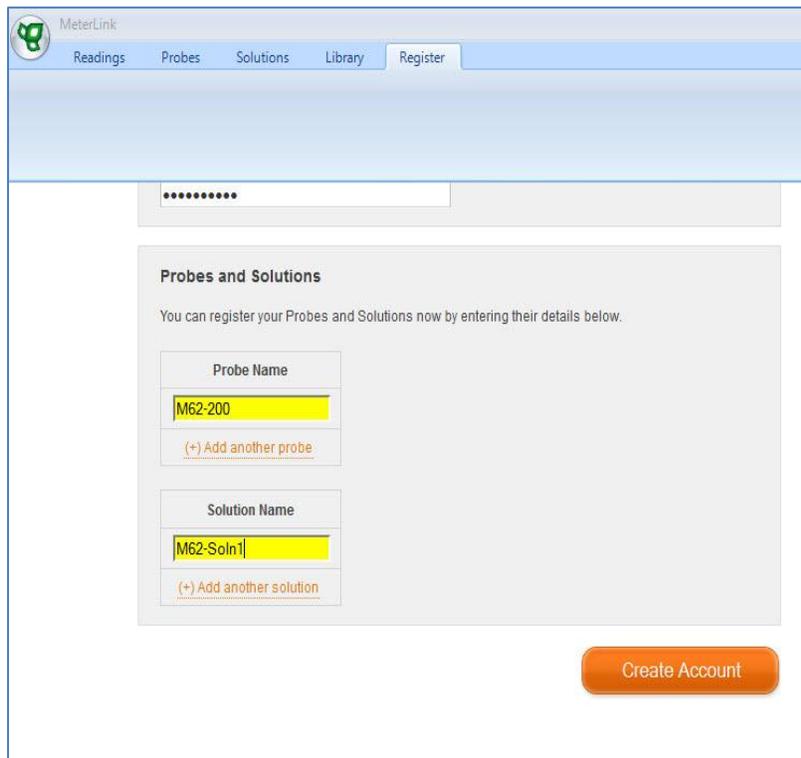
Administrator Name

Administrator Email

Administrator Password

Confirm Administrator Password

On the first part of the registration screen, you will need to enter the company name, a username, e-mail address and password.



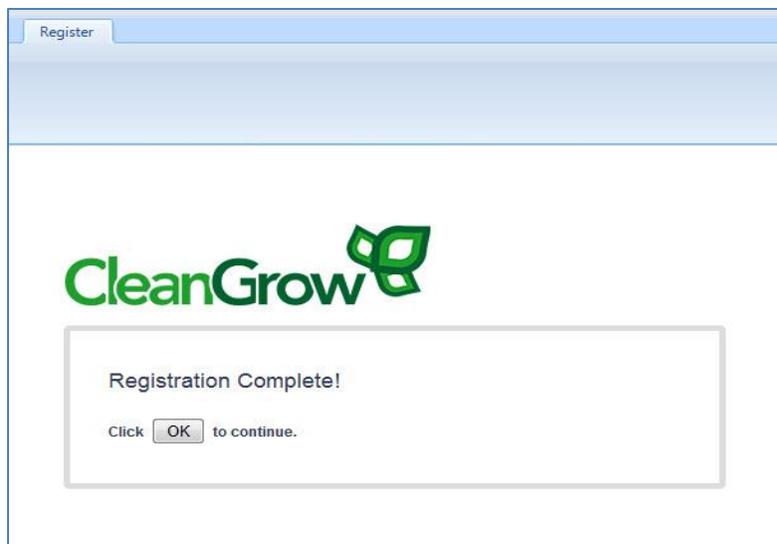
The screenshot shows the 'Register' tab of the MeterLink application. At the top, there are navigation tabs: Readings, Probes, Solutions, Library, and Register. Below the tabs is a password field with a masked password '.....'. The main content area is titled 'Probes and Solutions' and contains the instruction: 'You can register your Probes and Solutions now by entering their details below.' There are two input sections: 'Probe Name' with a text box containing 'M62-200' and a link '(+) Add another probe'; and 'Solution Name' with a text box containing 'M62-Soln1' and a link '(+) Add another solution'. At the bottom right of the form is an orange 'Create Account' button.

On the second part of the registration screen, you will need to enter your probe name and calibration solution name.

The probe name can be found on the barrel of the probe and on the cable.

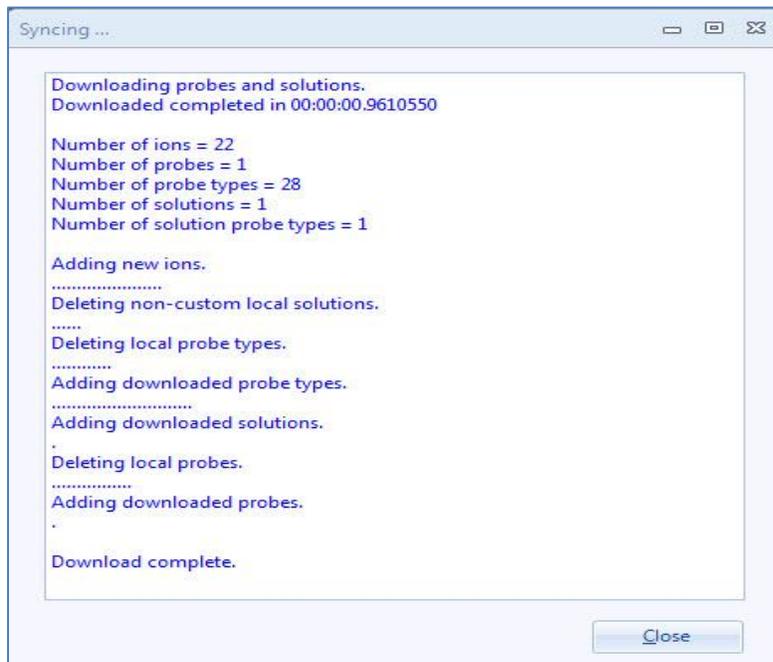
The calibration solution name can be found on the back of the bottle.

Once all of the information has been entered, click on the Create Account button. This will complete the Registration process.



The screenshot shows the 'Register' tab of the MeterLink application. The main content area features the CleanGrow logo and a message box that says 'Registration Complete!'. Below the message box is a button labeled 'OK' with the text 'Click OK to continue.'

When you click on the OK button to continue, your registered probes and solutions will automatically be downloaded from your account to the MeterLink program.



Once the download process has completed, you will see your registered probes and solutions within the probes tab and solutions tab (See next sections).

If you make a mistake during the registration process or forget to register a probe or calibration solution, you can modify the details by logging on to www.cleangrow-online.com using your username and password.

2.2 Probes Tab

Select the Probes tab.

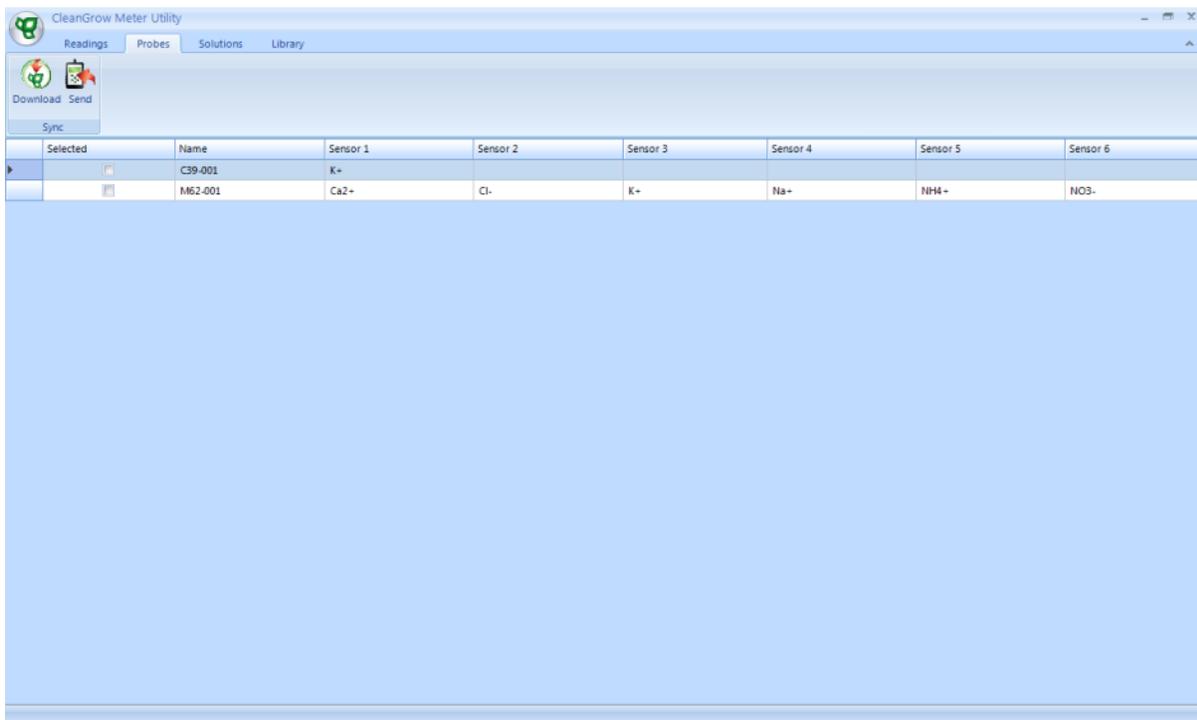
Your list of registered probes should be displayed, including the ions measured by each probe.

(If you have made any modifications through your registered account on cleangrow-online.com, you can refresh the probes list by clicking on the **'Download'** button. Your list of the purchased probes will be downloaded to the MeterLink Program.)

To send this information to the meter, connect the meter to your PC using a USB cable.

Select the Probes you would like to send to the meter (a maximum of 10 is allowed) and then click on the **'Send'** button. You will see the ion names update on the meter screen.

Note: Sending probe information to the meter will overwrite any existing probe information on the meter.



2.3 Solutions Tab

2.3.1 Downloading Calibration Solutions

Select the Calibration Solutions tab.

Your registered calibration solutions should have already been downloaded to the Meterlink program following login or registration.

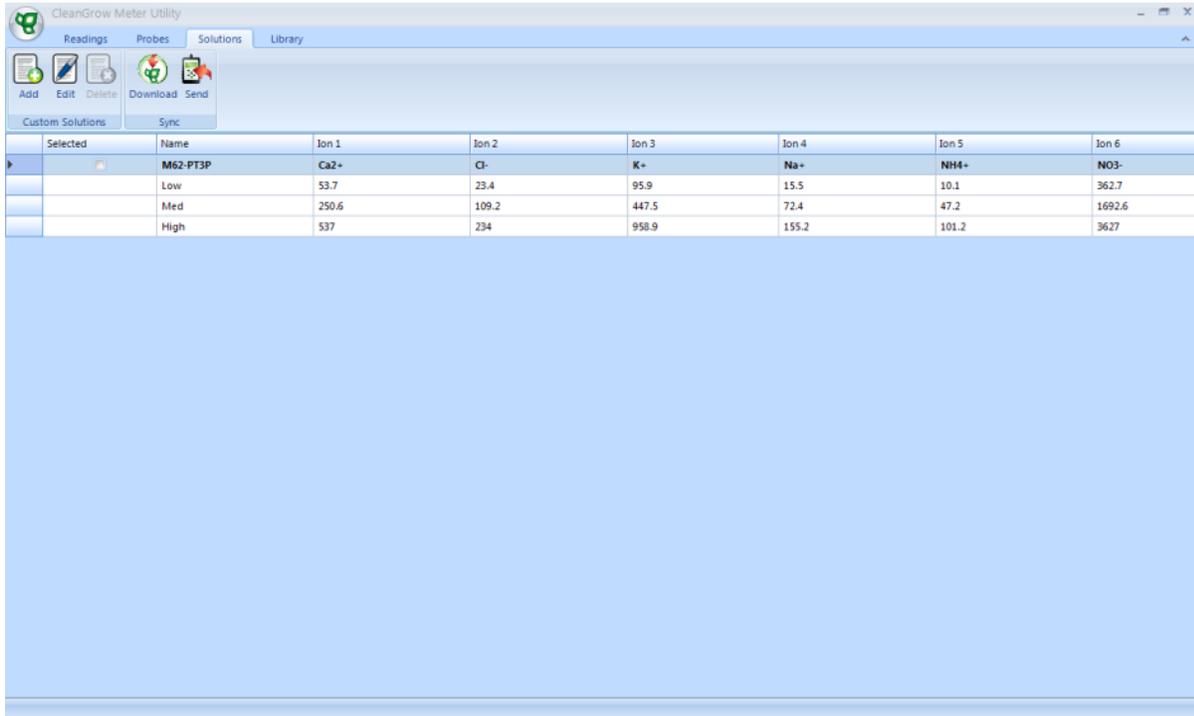
(If you have made any modifications through your registered account on cleangrow-online.com, you can refresh the solutions list by clicking on the **'Download'** button. Your list of registered solutions will be downloaded to the MeterLink Program.)

When the download has completed, the Calibration Solution names and the calibration point values for each ion will be displayed.

To send this information to the meter, connect the meter to your PC using a USB cable.

Select the Calibration solutions you would like to send to the meter (a maximum of 6 is allowed) and then click on the **'Send'** button.

Note: Sending Calibration Solution information to the meter will overwrite any existing Calibration Solution information already on the meter.

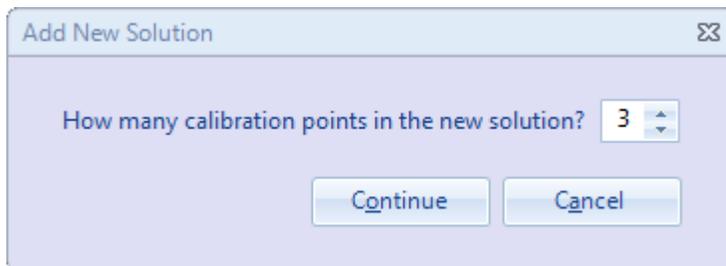


Selected	Name	Ion 1	Ion 2	Ion 3	Ion 4	Ion 5	Ion 6
	M62-PT3P	Ca2+	Cl-	K+	Na+	NH4+	NO3-
	Low	53.7	23.4	95.9	15.5	10.1	362.7
	Med	250.6	109.2	447.5	72.4	47.2	1692.6
	High	537	234	958.9	155.2	101.2	3627

2.3.2 Adding Custom Calibration Solutions

If you make up your own calibration solutions, you can add these to the solutions list within the Meterlink program by following these steps.

- Click on the 'Add' button.
- Enter the number of calibration points and click Continue.



- Select the Probe type.
- Give the solution a name.
- Enter a ppm value for each of the calibration points and click on the 'Save Changes' button.
- The new solution will appear in your solutions list.

- You can edit an existing custom solution by selecting a solution and clicking on the Edit button.

Add/Edit Custom Solution Σ

Solution Name and Probe Type

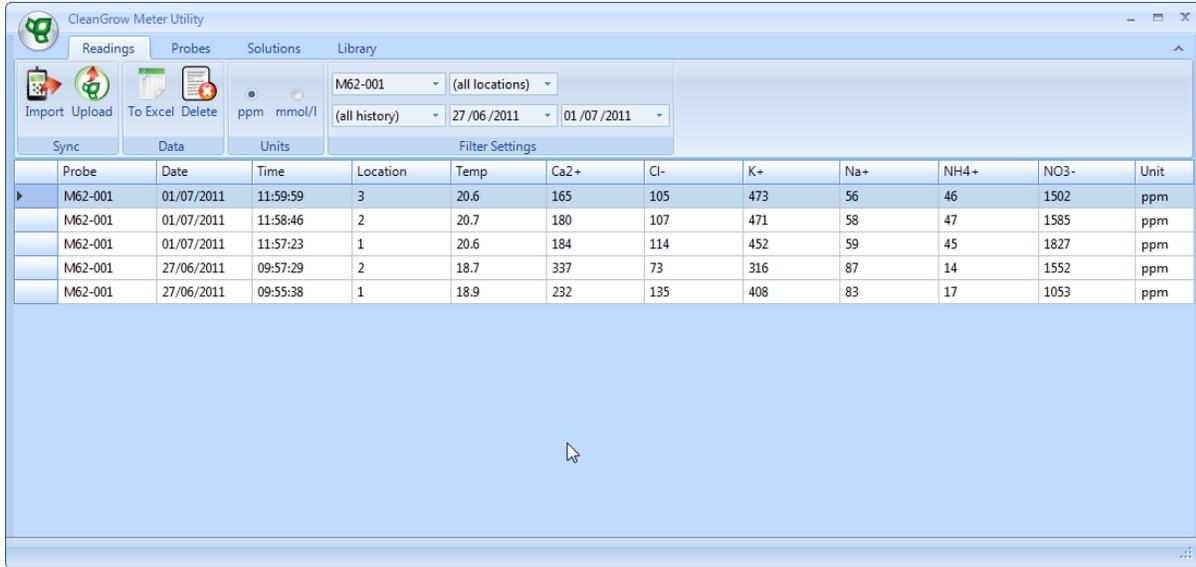
Probe Type:

Name:

Calibration Points

	Low	Med	High
Ca ²⁺	<input type="text" value="10"/>	<input type="text" value="100"/>	<input type="text" value="200"/>
Cl ⁻	<input type="text" value="10"/>	<input type="text" value="100"/>	<input type="text" value="200"/>
K ⁺	<input type="text" value="10"/>	<input type="text" value="100"/>	<input type="text" value="200"/>
Na ⁺	<input type="text" value="10"/>	<input type="text" value="100"/>	<input type="text" value="200"/>
NH ₄ ⁺	<input type="text" value="10"/>	<input type="text" value="100"/>	<input type="text" value="200"/>
NO ₃ ⁻	<input type="text" value="10"/>	<input type="text" value="100"/>	<input type="text" value="200"/>

2.4 Readings Tab



Probe	Date	Time	Location	Temp	Ca2+	Cl-	K+	Na+	NH4+	NO3-	Unit
M62-001	01/07/2011	11:59:59	3	20.6	165	105	473	56	46	1502	ppm
M62-001	01/07/2011	11:58:46	2	20.7	180	107	471	58	47	1585	ppm
M62-001	01/07/2011	11:57:23	1	20.6	184	114	452	59	45	1827	ppm
M62-001	27/06/2011	09:57:29	2	18.7	337	73	316	87	14	1552	ppm
M62-001	27/06/2011	09:55:38	1	18.9	232	135	408	83	17	1053	ppm

2.4.1 Retrieve data from Meter

To transfer data from your meter to your PC, connect the meter using a USB cable.

Click on the 'Import' button. This will retrieve all newly saved data on the meter.

2.4.2 Filtering data

The imported data can be filtered by:

- Location
- Probe Name
- Date

2.4.3 Sorting data

You can sort the data by any column in either ascending or descending order by clicking on any of the column names.

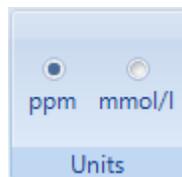
2.4.4 Export readings to Excel workbook

All of the readings can be exported to an Excel workbook by clicking on the 'To Excel' button.

You can choose to export all readings or just the filtered readings.

2.4.5 Changing units

The results can be changed from displaying ppm to mmol/l and visa versa by clicking on the relevant unit button.



2.4.6 Deleting data

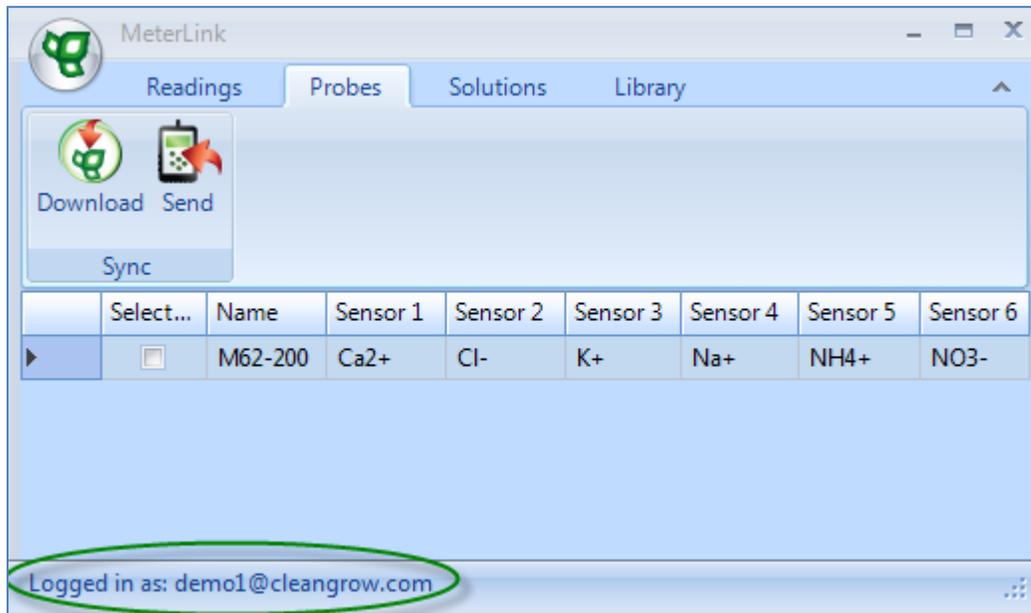
Select the row or rows to be deleted and click on the delete button.

Note, these rows of data will be imported again from the meter during the next import if they are not deleted from the meter.

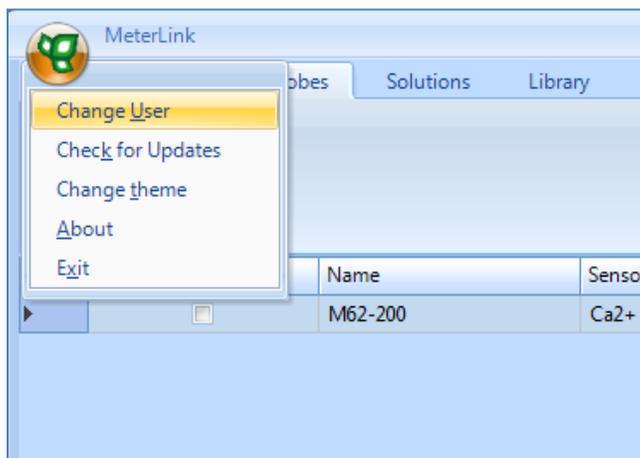
2.6 Changing User

A number of people can use the MeterLink program on the same computer and keep their data separate by setting up a separate user account.

You can see who is currently logged in on the bottom left-hand corner of the screen.

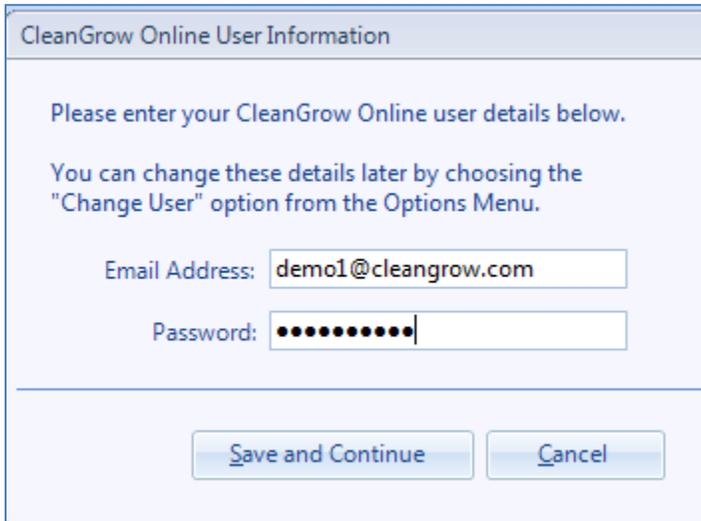


To log in as a different user, click on the CleanGrow button on the top left-hand corner of the screen and select the 'Change User' option.



Enter your e-mail address and password and click on the 'Save and Continue button'.

This will automatically download the probes and calibration solutions associated with this account.



CleanGrow Online User Information

Please enter your CleanGrow Online user details below.

You can change these details later by choosing the "Change User" option from the Options Menu.

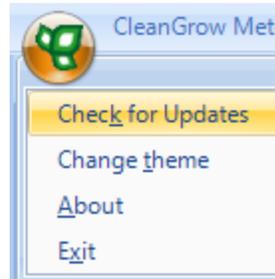
Email Address:

Password:

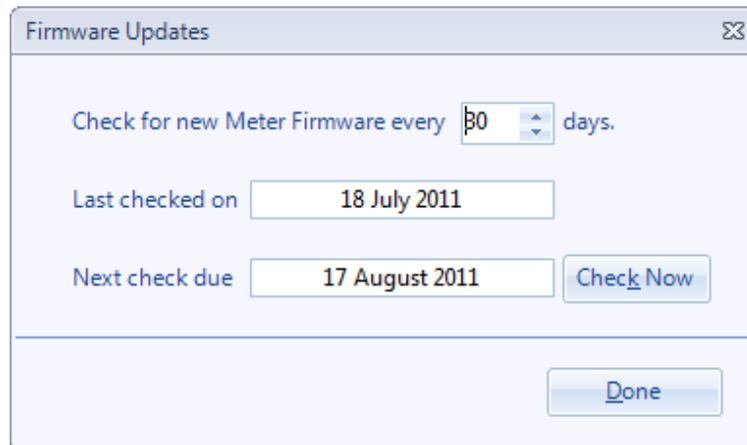
2.7 Upgrading the Meter Firmware

2.7.1 Checking for Firmware Updates

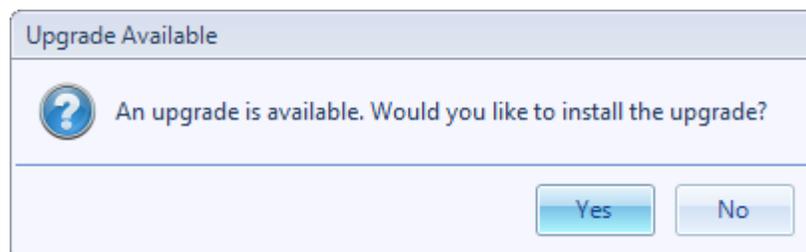
- Click on the options button at the top left-hand corner of the screen and select the 'Check for Updates' option.



- You can set the interval time to check for updates, so that the Meterlink program will automatically check if there are any updates available for your meter.



- You can also 'Check now'.
- If there is an update available, you will have the option to proceed with the firmware upgrade.

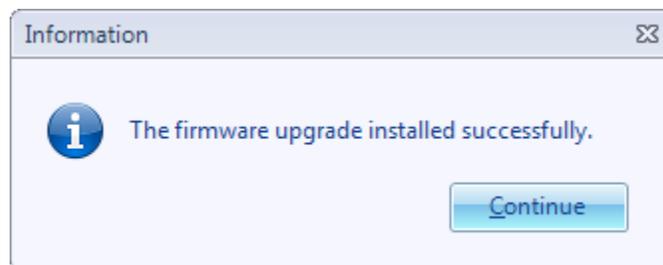


2.7.2 Upgrading the Firmware

- Connect the meter to your PC using the USB cable.
- Make you have imported all of your readings from the meter before proceeding with the upgrade. Upgrading the meter will completely reset it by deleting all readings, probe lists and solution lists.



- Do not press any buttons on the meter or disconnect the USB cable during the upgrade process. To do so could cause the upgrade to fail.
- A message box will be displayed when the firmware upgrade has completed successfully.



- When the upgrade has completed, you will need to send over the Probe names and solution names to the meter again.

3. Further Information

For further information or questions please refer to the FAQ section of the CleanGrow website.

<http://cleangrow.assistly.com/> .

Please report any issues with the software by e-mailing support@cleangrow.com .