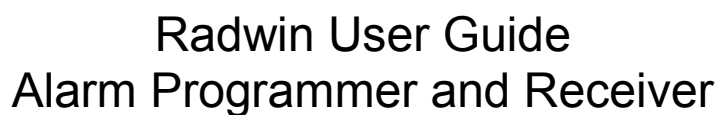




Radwin User Guide Alarm Programmer and Alarm Receiver



Keep this record in the front of the User Manual. When the document has been amended write the amendment number, the date, the paragraph numbers affected by the amendment and your initials in the table below.

	Alarm Programmer and Receiver ©Radcom (Technologies) Ltd	Page 2 of 27
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Alarm Programmer and Receiver Basics

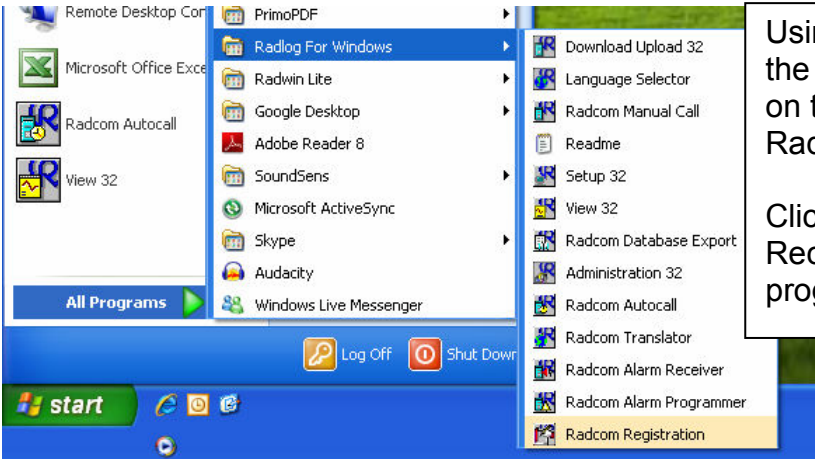
Radcom data loggers can be programmed with Alarm Levels. Be it pressure, flow or any other form of data - when these levels are exceeded the logger will dial (alarm out to) a predetermined phone number (or numbers).

The Alarm Receiver program requires a dedicated phone line and communication port on the PC (usually attached to PSTN a modem). While the Alarm Receiver is running the communication port and modem can not be used by any other program.

Alarms from Multilog LX data loggers are received via an SMS modem through Autocall. Autocall receives the SMS message, and then passes it on to Alarm receiver.

These instructions will guide you through setting alarm levels in a logger, and then illustrating how they will be dealt with in the Radcom software.

Running Alarm Programmer and Alarm Receiver



Using Windows XP you will find the Radwin components you need on the Start Menu >All Programs > Radlog for Windows

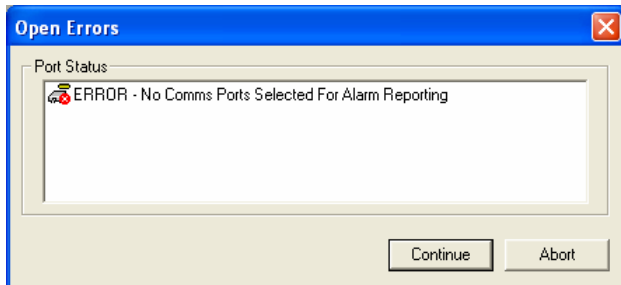
Click Alarm Programmer or Alarm Receiver to run the relevant program.

This information window will appear.

Wait a couple of seconds and it will disappear, or click Cancel to remove it from the screen more quickly.

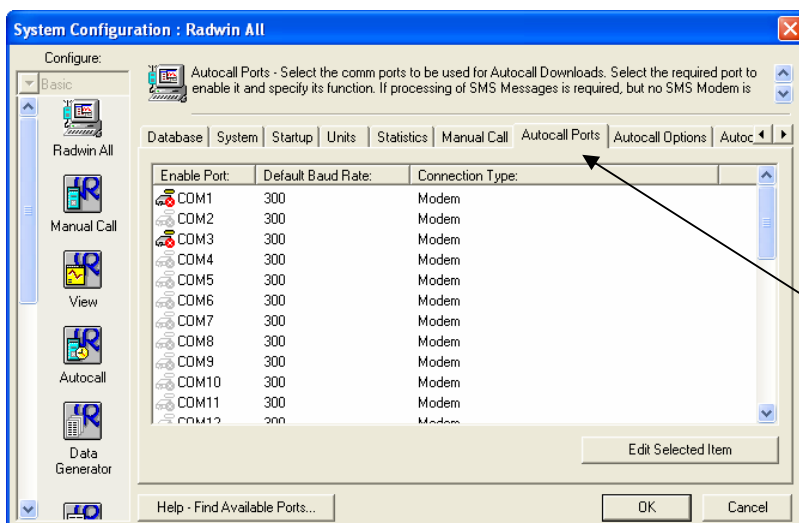


Alarm Receiver start up errors



When you start Alarm Receiver you may see this error message. This is due to no communication port being selected for Alarm Receiver.

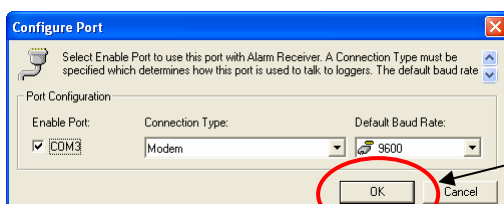
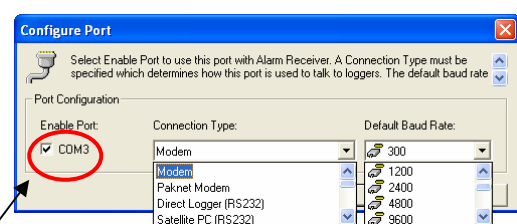
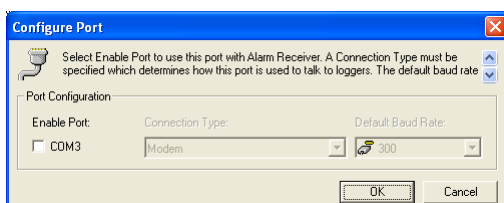
For detailed instructions about setting up ports see the Radwin Setup manual.



Here is a summary of how to fix the problem.

Run Radwin Setup, and from within System Configuration click the Autocall Ports tab.

Double click the communication port which you have allocated to receive alarms. Remember that while alarm receiver is running the port can not be used by any other application.



Enable the port by ticking the box and select the device which will receive the alarms (in this example a modem). The default baud rate should be set to the highest expected.

Click OK to save settings.

Then click OK to close the System Configuration window.

Finally close Radwin Setup and re-run Alarm

Programming Alarm Levels

Download Current Alarm Settings

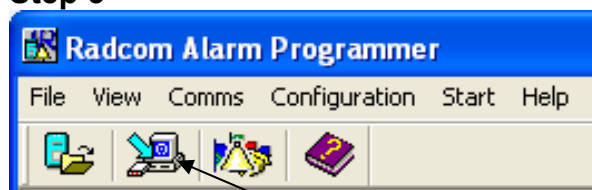
Step 1

Connect your logger to the PC via its direct communication cable.

Step 2

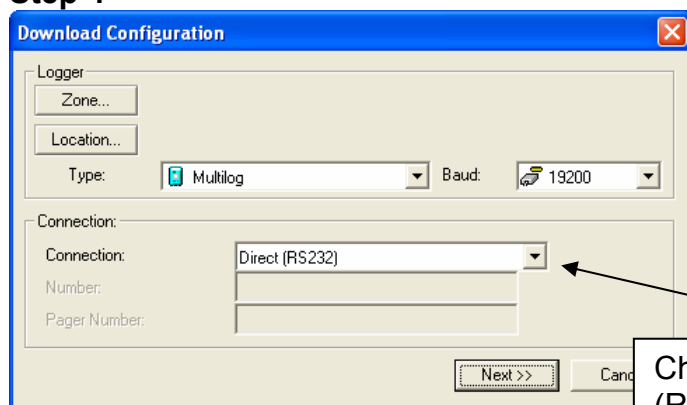
Run Radcom Alarm Programmer.

Step 3



Click the Download Alarm Data icon

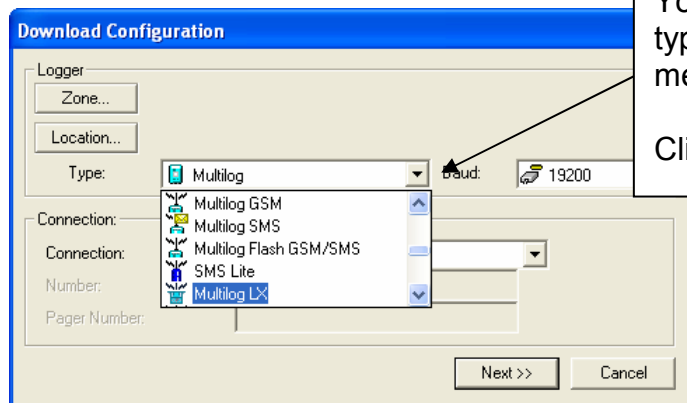
Step 4



Check the connection type is Direct (RS232).

You will need to select the correct logger type and baud rate using the dropdown menus.

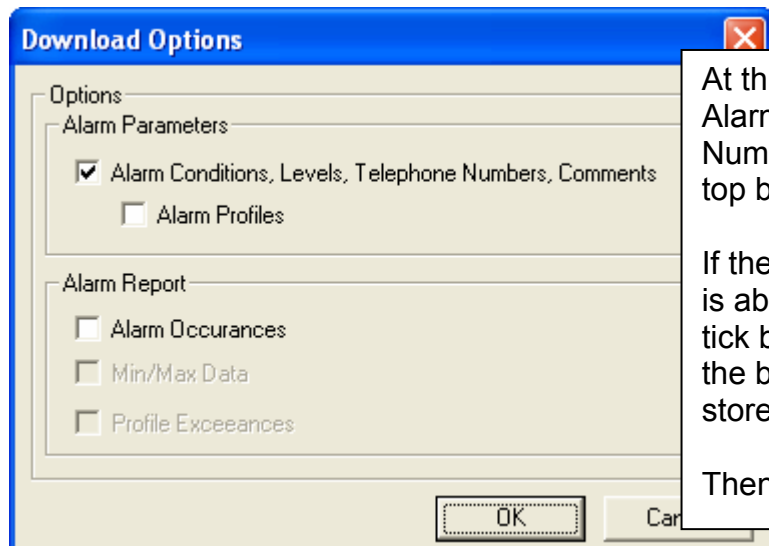
Click Next.



Radwin User Guide

Alarm Programmer and Receiver

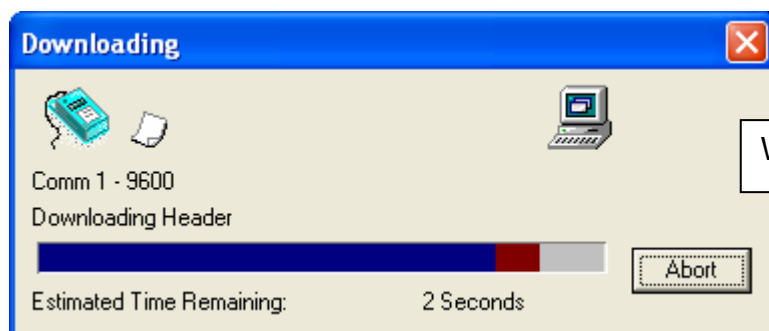
Step 5



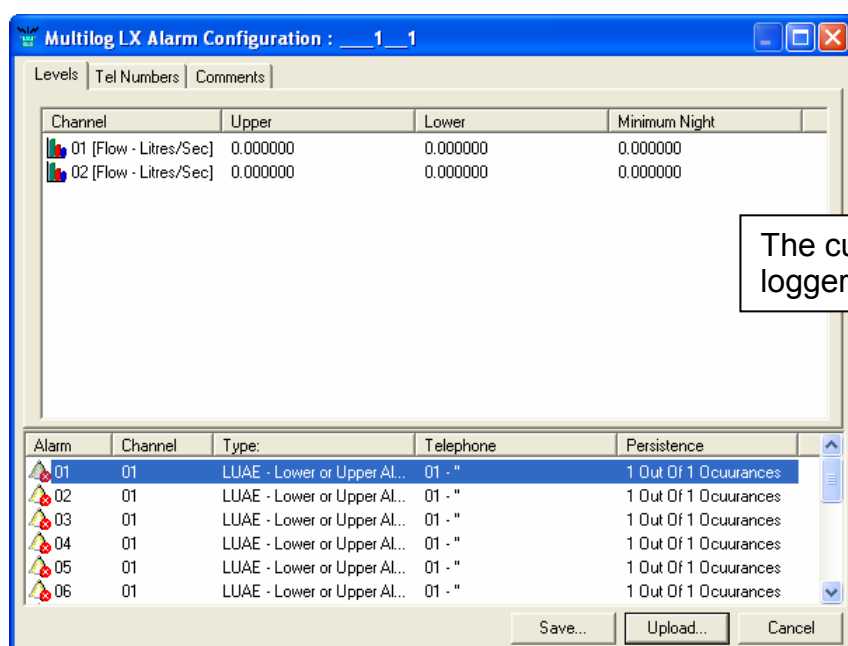
At this stage you only need to download Alarm Conditions, Level, Telephone Numbers and Comments by ticking the top box.

If the logger you are trying to download is able to store alarm profiles then the tick box will be available to use. Click the box if you wish to download the stored profiles in the logger.

Then click OK



Wait for communications to finish.



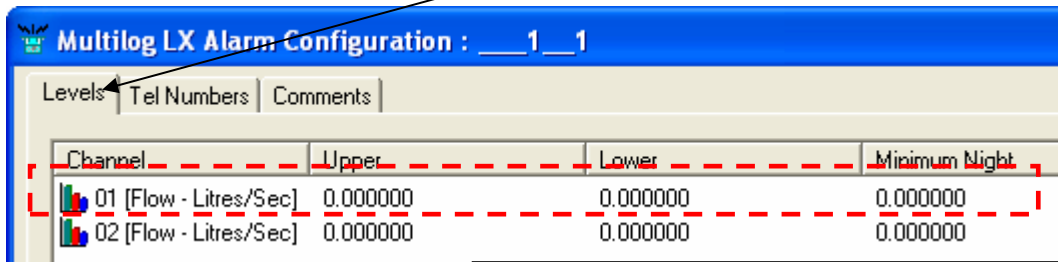
The current alarm settings from the logger will be displayed.

Changing the Alarm settings

Levels

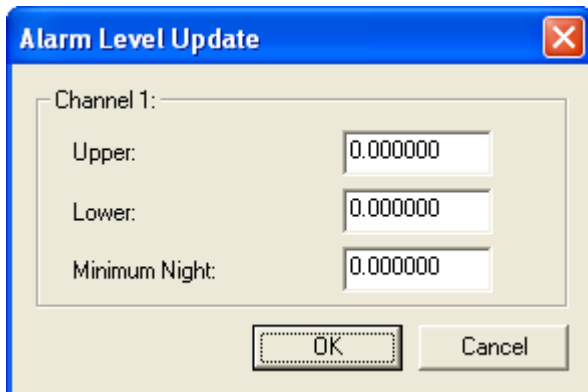
Each recording channel has an upper, lower and minimum night alarm level.

To access the level settings click the Levels tab.



Channel	Upper	Lower	Minimum Night
01 (Flow - Litres/Sec)	0.000000	0.000000	0.000000
02 (Flow - Litres/Sec)	0.000000	0.000000	0.000000

To adjust the alarm level settings on a channel double click anywhere on its settings as shown above.



Channel 1:

Upper: 0.000000

Lower: 0.000000

Minimum Night: 0.000000

OK Cancel

To change the alarm level figures just click in the text box and edit the number. Then click OK.

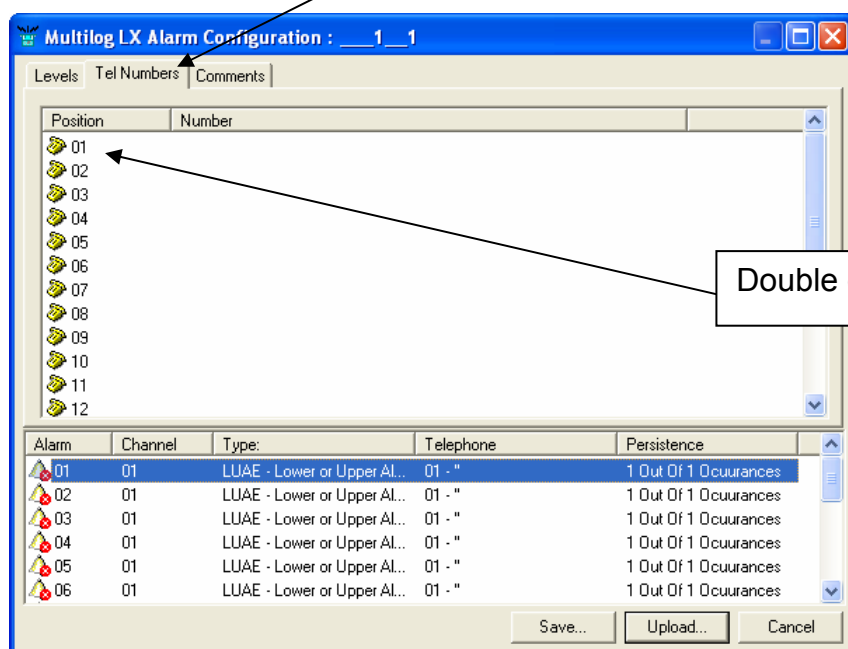
Radwin User Guide

Alarm Programmer and Receiver

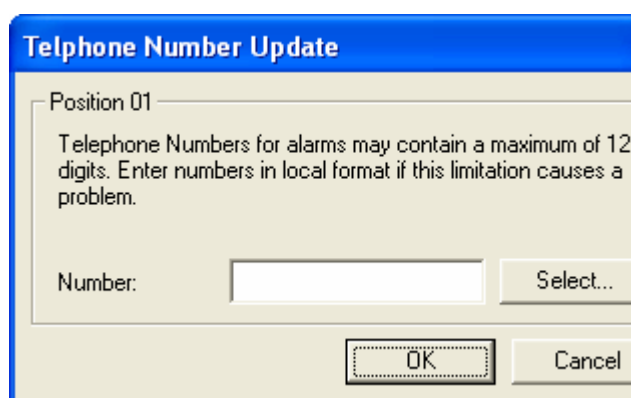
Telephone Numbers to Call

The logger can alarm out to several different numbers. If the logger alarms out to a PC running Alarm Receiver, then the information will be processed by Radwin. If you program a normal mobile phone number into the list then it will be called or receive a text message with alarm information depending on what type of logger is alarming out.

To access the alarm out telephone numbers click the Tel Numbers tab



Double click on the first empty line.



Type in the number you would like the logger to alarm out to.

The number should start with "0" and not "+44". Change the format of your number if required.

If you make use of the Phone Book in Radwin then you can click Select, and pick the phone number you need.

Then click OK

Continued...

Radwin User Guide

Alarm Programmer and Receiver

Multilog LX Alarm Configuration : __1__1

Levels Tel Numbers Comments

Position	Number
01	07788778877
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	
12	

Alarm	Channel	Type:	Telephone
01	01	LUAE - Lower or Upper AL...	01 - '07788778877'
02	01	LUAE - Lower or Upper AL...	01 - '07788778877'
03	01	LUAE - Lower or Upper AL...	01 - '07788778877'
04	01	LUAE - Lower or Upper AL...	01 - '07788778877'
05	01	LUAE - Lower or Upper AL...	01 - '07788778877'
06	01	LUAE - Lower or Upper AL...	01 - '07788778877'

1 Out Of 1 Occurances
1 Out Of 1 Occurances

Save... Upload... Cancel

If you wish to program more than one number just click the next available empty line and follow the instruction as previously stated in this section.

For Radwin to be able to process the messages one of these numbers must be the modem on the PC which runs Alarm Receiver.

Multilog LX Alarm Configuration : __1__1

Levels Tel Numbers Comments

Position	Number
01	07788778877
02	07777888888
03	
04	
05	
06	
07	
08	
09	
10	
11	
12	

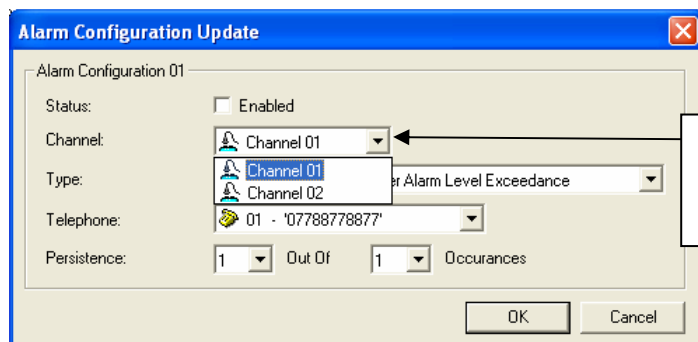
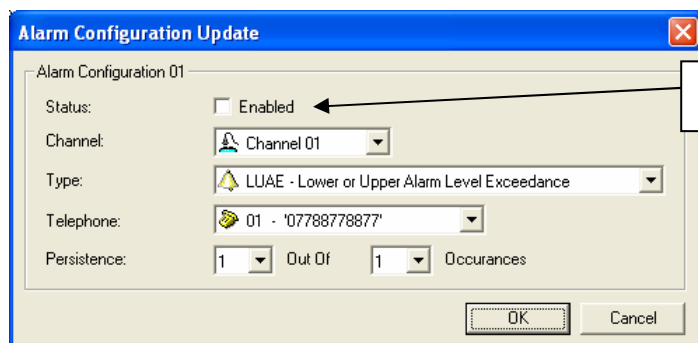
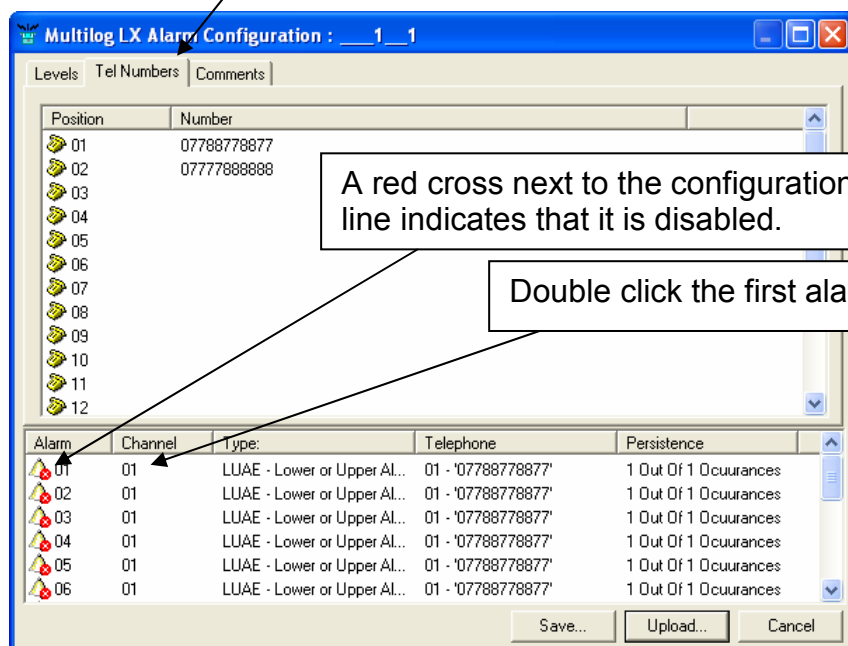
Alarm	Channel	Type:	Telephone	Persistence
01	01	LUAE - Lower or Upper AL...	01 - '07788778877'	1 Out Of 1 Occurances
02	01	LUAE - Lower or Upper AL...	01 - '07788778877'	1 Out Of 1 Occurances
03	01	LUAE - Lower or Upper AL...	01 - '07788778877'	1 Out Of 1 Occurances
04	01	LUAE - Lower or Upper AL...	01 - '07788778877'	1 Out Of 1 Occurances
05	01	LUAE - Lower or Upper AL...	01 - '07788778877'	1 Out Of 1 Occurances
06	01	LUAE - Lower or Upper AL...	01 - '07788778877'	1 Out Of 1 Occurances

Save... Upload... Cancel

Example:
Alarm programmer with two telephone numbers listed

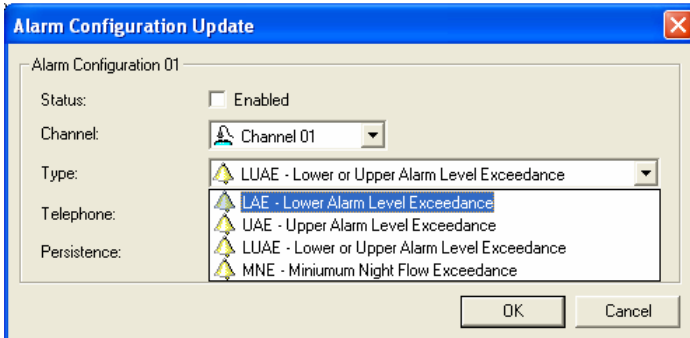
Alarm Conditions

Having programmed phone numbers into the logger, you also need to set the alarm conditions which will cause the numbers will be dialled. These alarm levels are accessed from the Tel Number tab.



Radwin User Guide

Alarm Programmer and Receiver



Alarm Configuration Update

Alarm Configuration 01

Status: ☐ Enabled

Channel: Channel 01

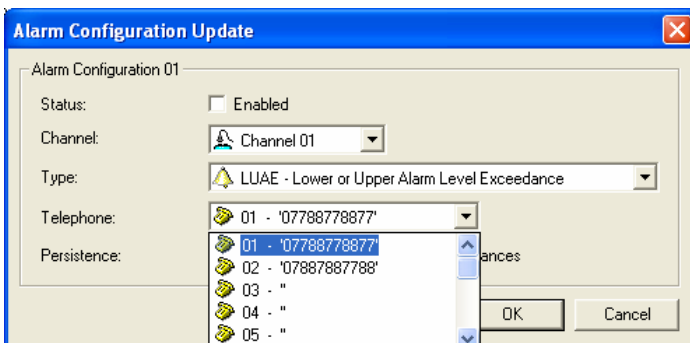
Type: LUAE - Lower or Upper Alarm Level Exceedance

Telephone: LUAE - Lower Alarm Level Exceedance

Persistence: LUAE - Lower or Upper Alarm Level Exceedance

OK Cancel

Pick the type of exceedance which will cause this alarm.



Alarm Configuration Update

Alarm Configuration 01

Status: ☐ Enabled

Channel: Channel 01

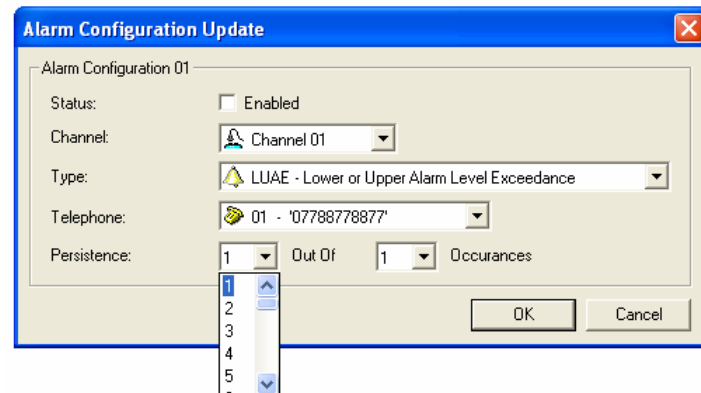
Type: LUAE - Lower or Upper Alarm Level Exceedance

Telephone: 01 - '07788778877'

Persistence: 01 - '07788778877'

OK Cancel

If you have programmed in more than one phone number you can pick which one the logger will send a message to.



Alarm Configuration Update

Alarm Configuration 01

Status: ☐ Enabled

Channel: Channel 01

Type: LUAE - Lower or Upper Alarm Level Exceedance

Telephone: 01 - '07788778877'





Persistence: 1 Out Of 1 Occurances

OK Cancel

Select how persistent the alarm level has to be before the logger alarms out.

Click OK to finish

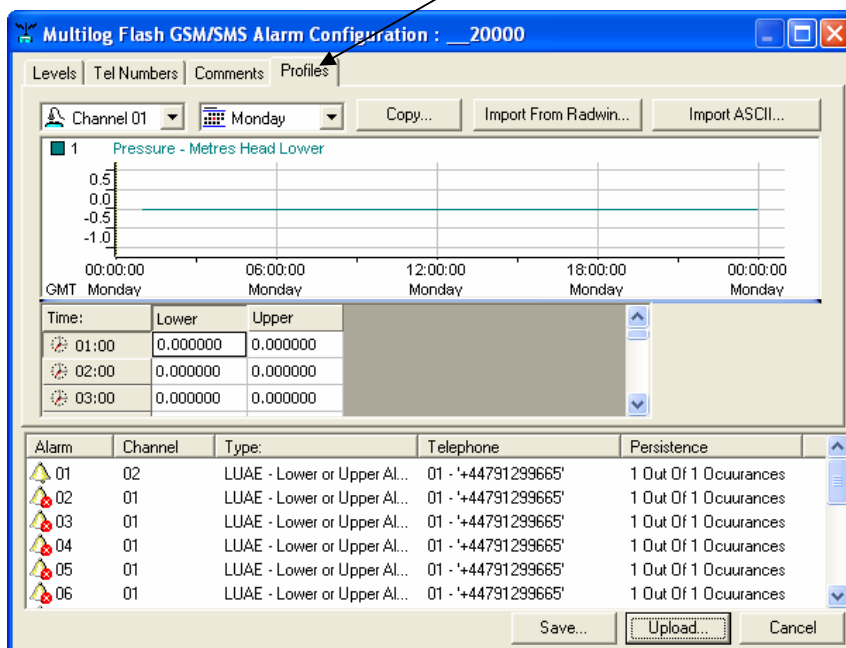
An enabled alarm will not have a red cross next to it.

Alarm	Channel	Type:	Telephone	Persistence
 01	01	UAE - Upper Alarm Level ...	02 - '07887887788'	1 Out Of 1 Occurances
 02	01	LUAE - Lower or Upper Al...	01 - '07788778877'	1 Out Of 1 Occurances
 03	01	LUAE - Lower or Upper Al...	01 - '07788778877'	1 Out Of 1 Occurances
 04	01	LUAE - Lower or Upper Al...	01 - '07788778877'	1 Out Of 1 Occurances
 05	01	LUAE - Lower or Upper Al...	01 - '07788778877'	1 Out Of 1 Occurances

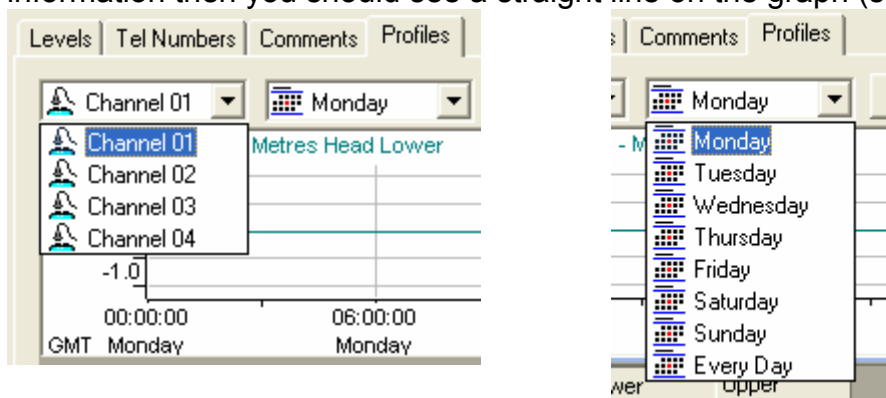
Profiles

On some loggers it is possible to program alarm profiles. Use this when you expect your data to follow a predicted pattern. If the data deviates from this pattern the logger will alarm out.

Click the Profiles tab to start the configuration process.



If the logger has never been configured with profiles, or you did not download the profile information then you should see a straight line on the graph (see above).

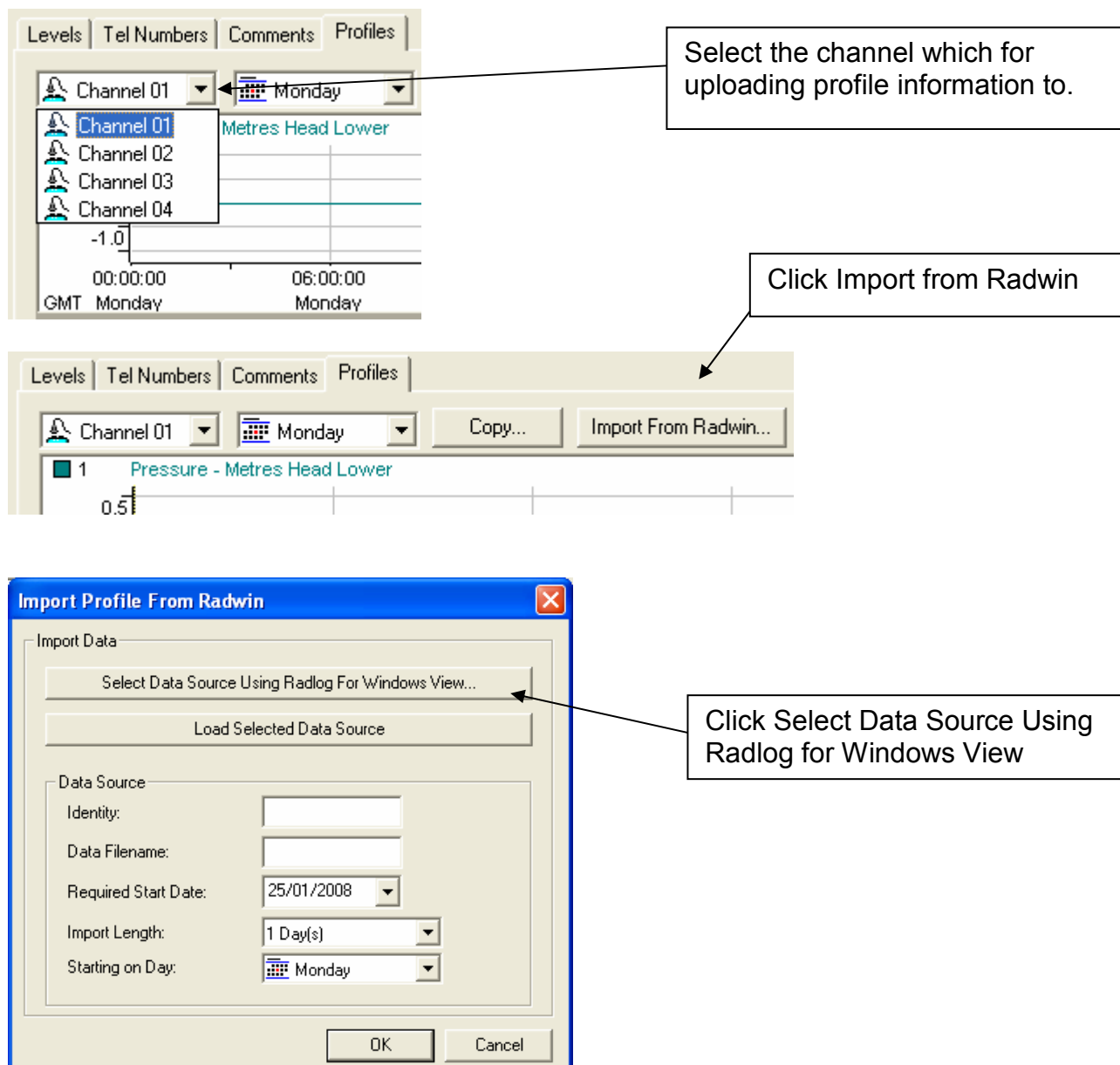


A different profile can be set for each channel and for each day if required.

Radwin User Guide

Alarm Programmer and Receiver

These instructions will describe how to import information from data already collected in Radwin.



The screenshot shows the Radwin interface with the 'Profiles' tab selected. A callout points to the 'Channel 01' dropdown menu, stating: "Select the channel which for uploading profile information to." Another callout points to the 'Import From Radwin...' button, stating: "Click Import from Radwin".

The 'Import Profile From Radwin' dialog box is shown with the following fields:

- Import Data:
 - Select Data Source Using Radlog For Windows View...
 - Load Selected Data Source
- Data Source:
 - Identity: [Text Field]
 - Data Filename: [Text Field]
 - Required Start Date: 25/01/2008
 - Import Length: 1 Day(s)
 - Starting on Day: Monday
- Buttons: OK, Cancel

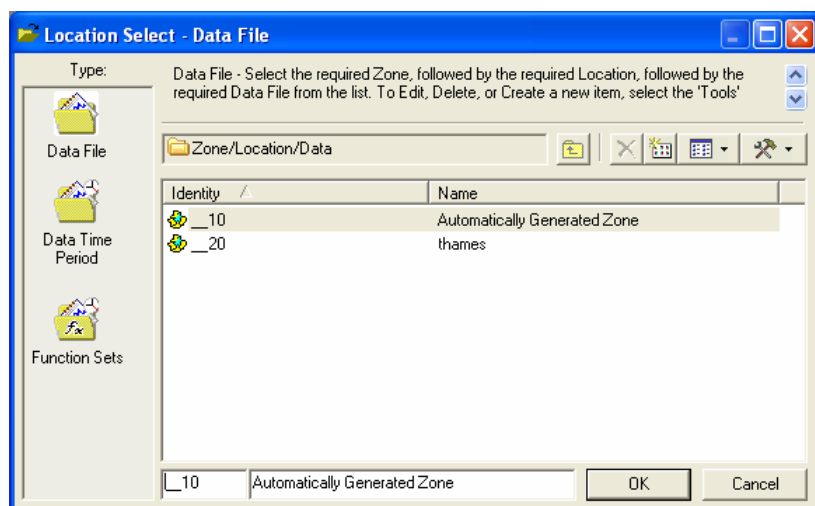
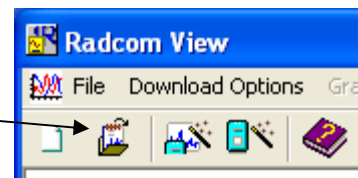
A callout points to the 'Select Data Source Using Radlog For Windows View...' button, stating: "Click Select Data Source Using Radlog for Windows View".

Radlog for windows View will now open.

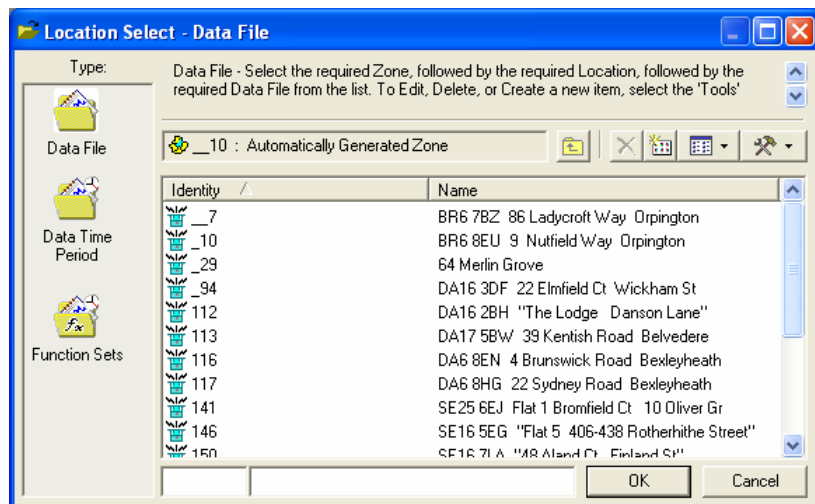
Radwin User Guide

Alarm Programmer and Receiver

Click the Open Data File icon



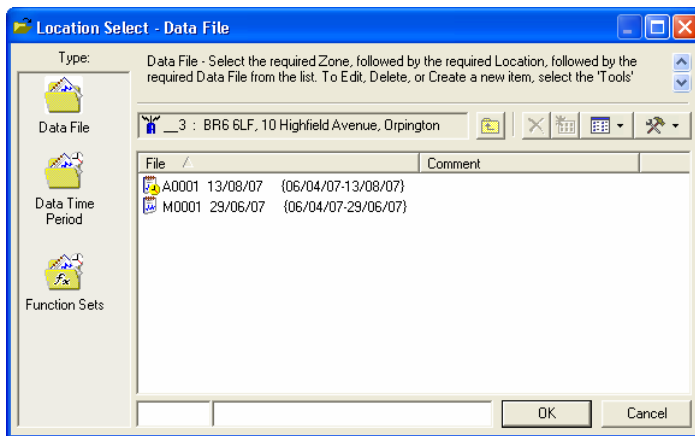
Double click the zone which contains the data you need.



Double click the location to access the data files you need.

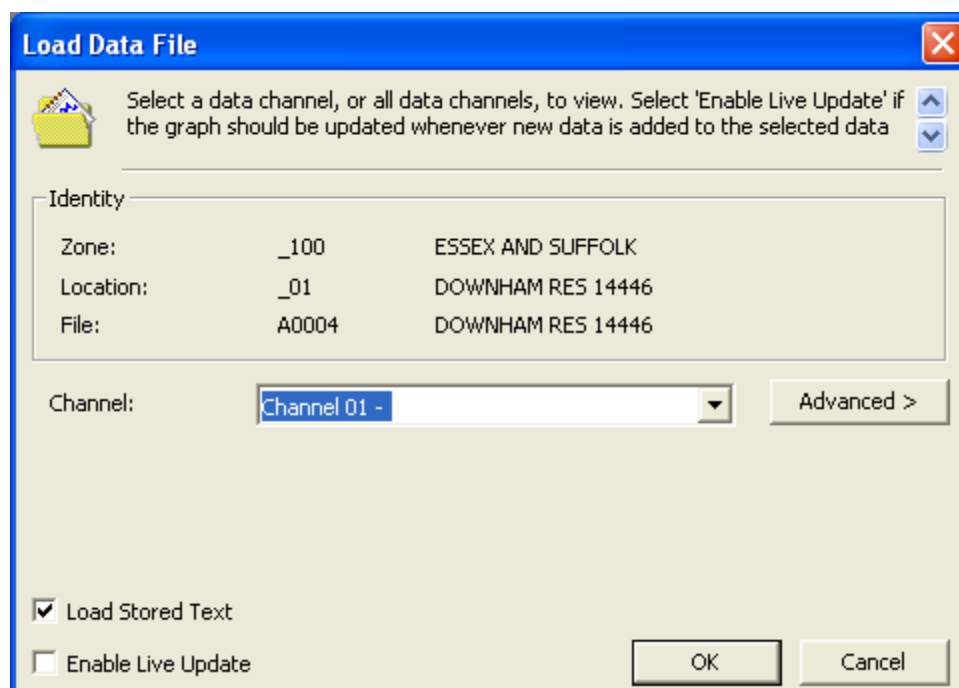
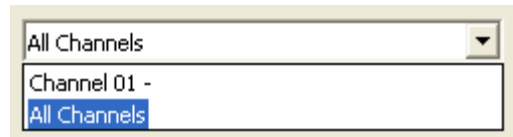
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Alarm Programmer and Receiver

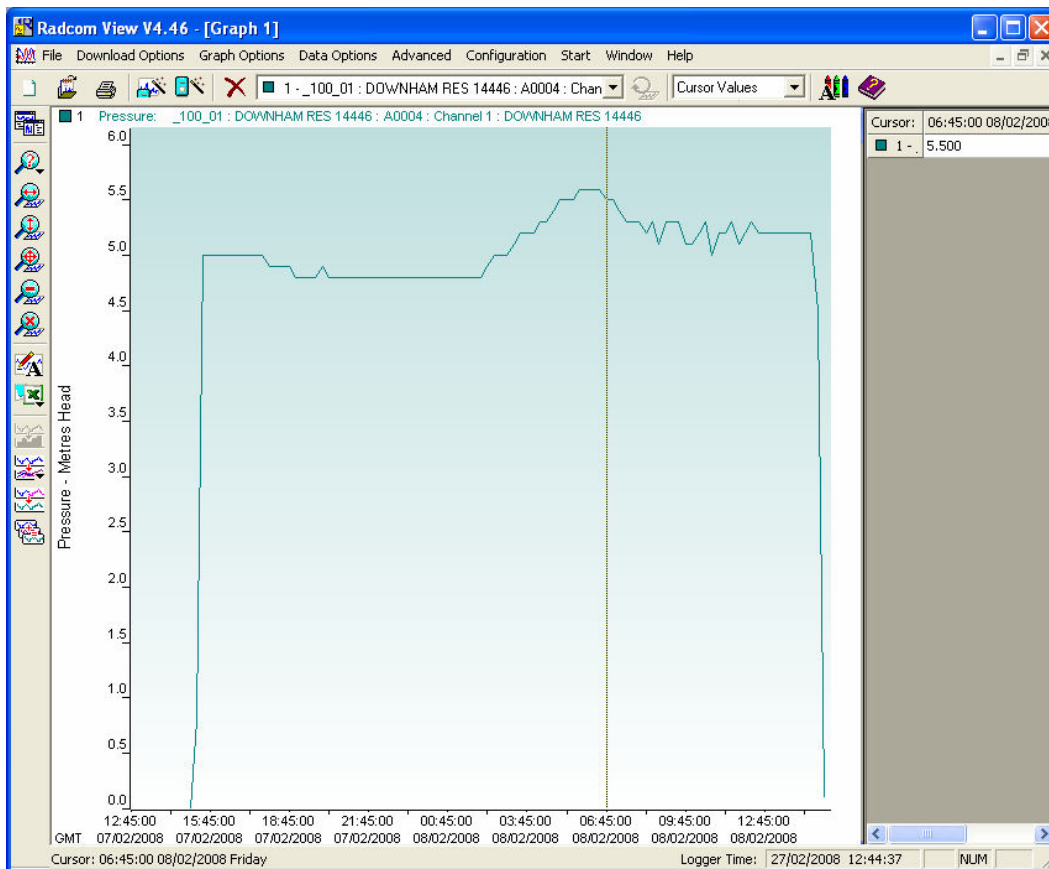


The data files available for this location are listed here. Double click on the archive or manual file to view the data within.

Click the channels drop down menu to change the data which is viewed. By default it will display All Channels, but you need to select to just one channel from a multiple channel logger so that the correct information is imported into the alarm profile..

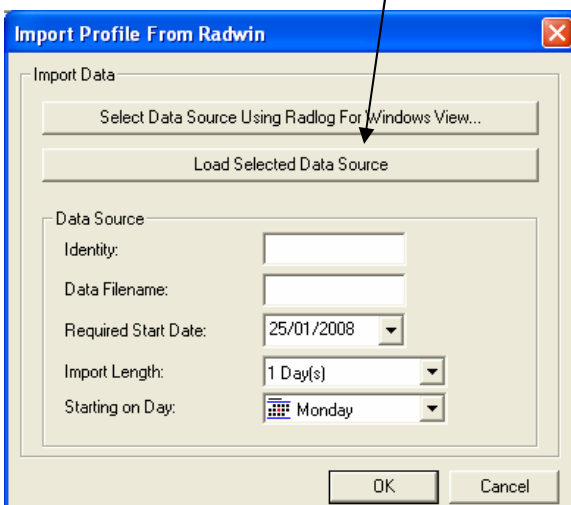


Click OK to view the data.



Now click Alarm Programmer to bring it back in front of View.

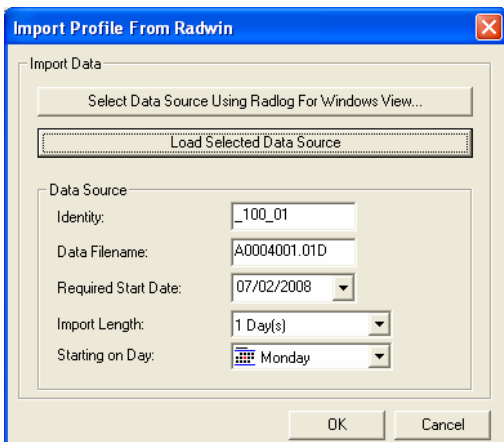
Click Load Selected Data Source



The screenshot shows the "Import Profile From Radwin" dialog box. It has a title bar with a close button. The "Import Data" section contains two buttons: "Select Data Source Using Radlog For Windows View..." and "Load Selected Data Source". Below these is a "Data Source" section with the following fields: "Identity:" (text box), "Data Filename:" (text box), "Required Start Date:" (dropdown menu showing "25/01/2008"), "Import Length:" (dropdown menu showing "1 Day(s)"), and "Starting on Day:" (dropdown menu showing "Monday"). At the bottom are "OK" and "Cancel" buttons. An arrow points from the "Load Selected Data Source" button in the dialog to the "Load Selected Data Source" button in the graph window above.

Radwin User Guide

Alarm Programmer and Receiver



Import Profile From Radwin

Import Data

Select Data Source Using Radlog For Windows View...

Load Selected Data Source

Data Source

Identity:

Data Filename:

Required Start Date:

Import Length:

Starting on Day:

OK Cancel

After clicking Load Selected Data Source you should see information in the Data Source information boxes.

The Identity number of the logger.

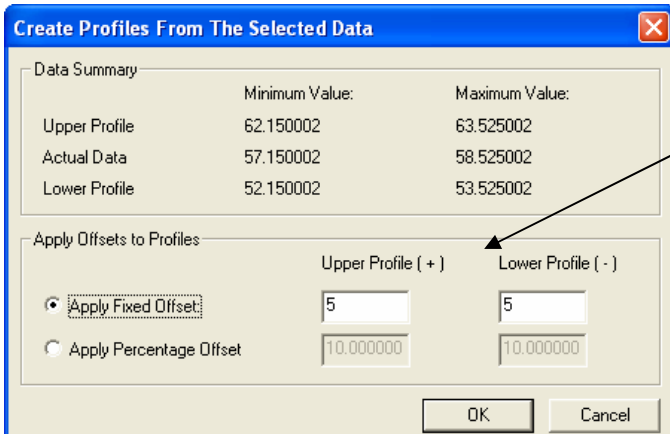
The Data Filename.

The required Start data is taken from the beginning of the graph, but you can select a different day by using the drop down menu.

You can import up to seven days of data using the drop down menu.

Select the day into which this information should be imported into using the drop down menu.

Click OK to import the data.



Create Profiles From The Selected Data

Data Summary

	Minimum Value:	Maximum Value:
Upper Profile	62.150002	63.525002
Actual Data	57.150002	58.525002
Lower Profile	52.150002	53.525002

Apply Offsets to Profiles

Upper Profile (+) Lower Profile (-)

☒ Apply Fixed Offset:

☐ Apply Percentage Offset:

OK Cancel

The alarm levels for the profile can be set here.

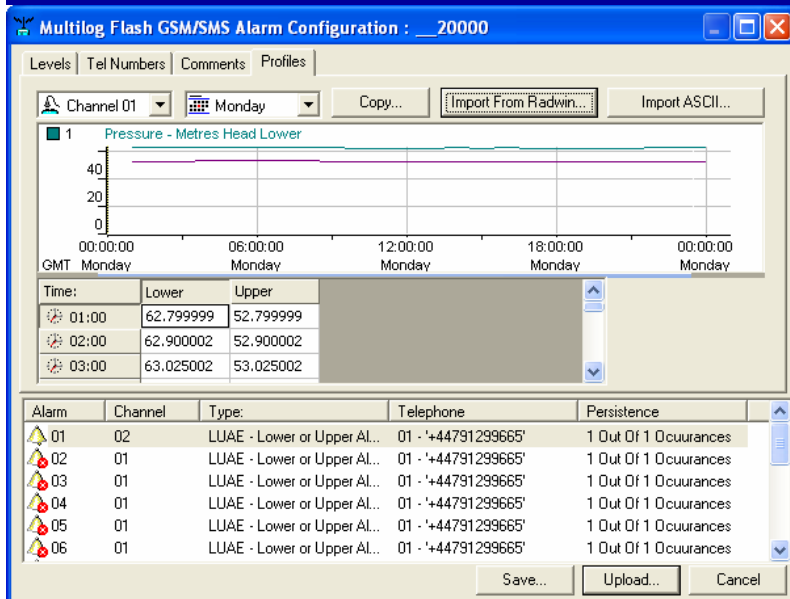
Apply a fixed offset here.

The upper and lower alarm levels will be 5 units higher and 5 units lower than the level of the data respectively.

Click OK to continue.

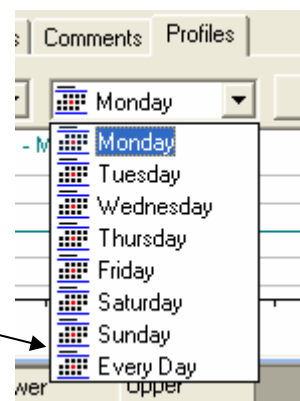
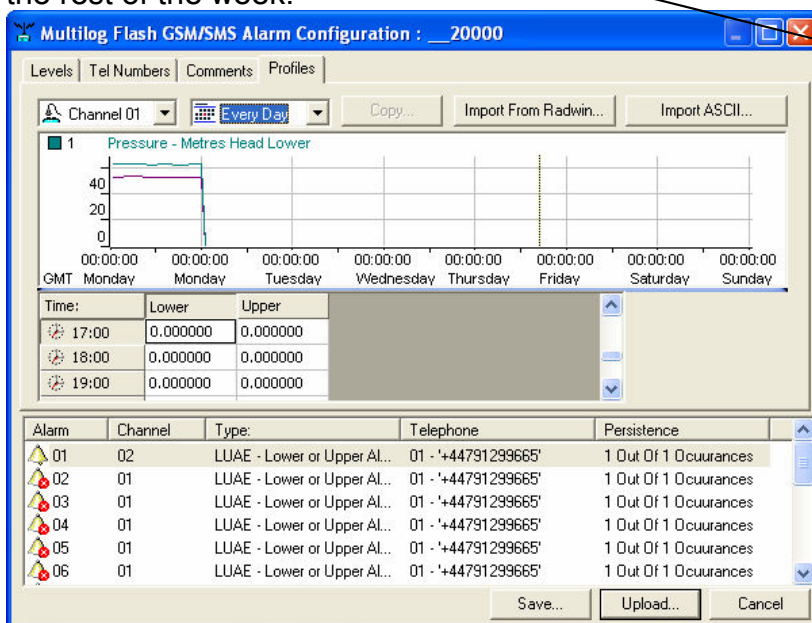
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Alarm Programmer and Receiver

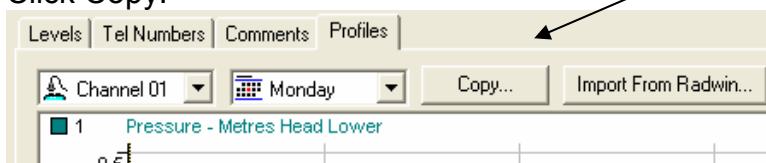


An alarm profile has now been imported into the software as you can see on the graph above. It shows the upper level in green and lower in purple.

This only applies to one day. Click every day to see the profiles for the rest of the week.

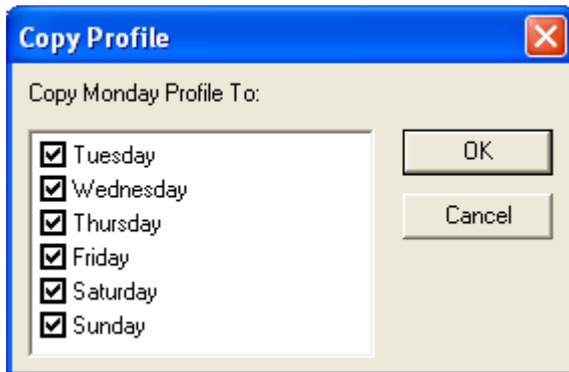


It is possible to copy this profile to other days. Change the view back to Monday, then Click Copy.



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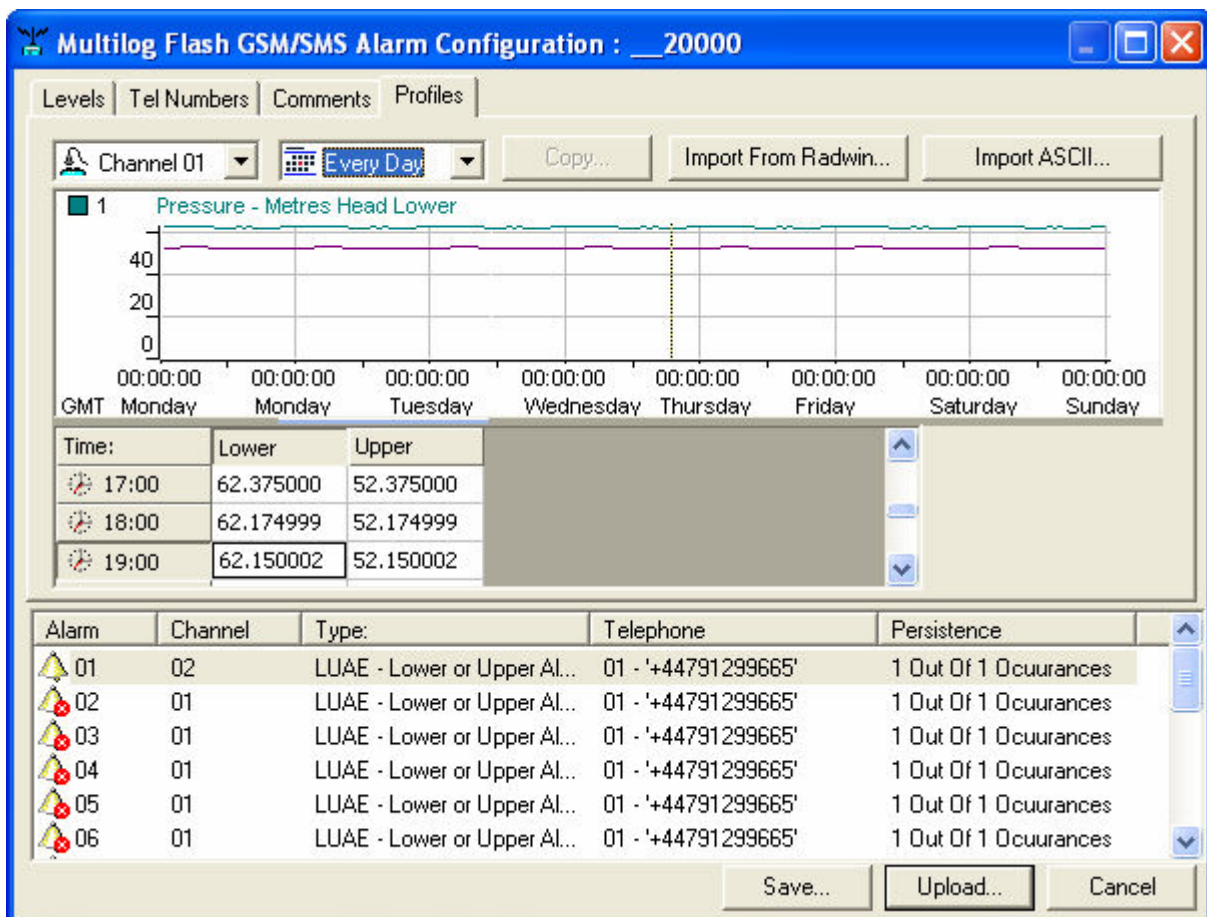
Alarm Programmer and Receiver



Tick the days that you wish to copy the profile to.

Click OK

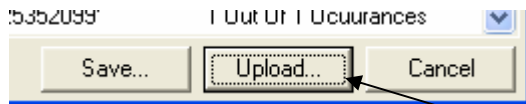
Now change the view again so that you can see the profile for every day and you should see the graph fills the screen.



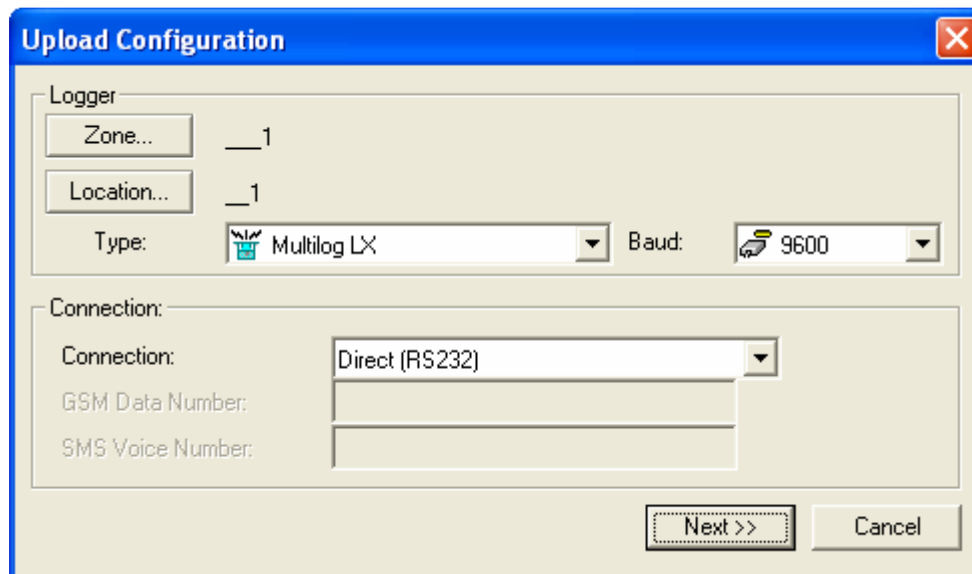
Repeat the process for every channel that you want profile alarms for.

Be sure to set up an alarm condition for the profile (page 13).

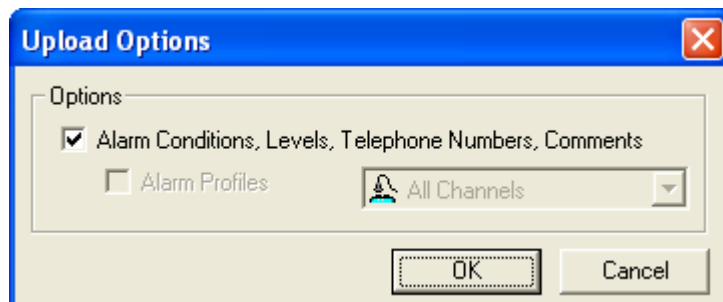
Uploading to the logger



Click Upload to send the settings to the logger.

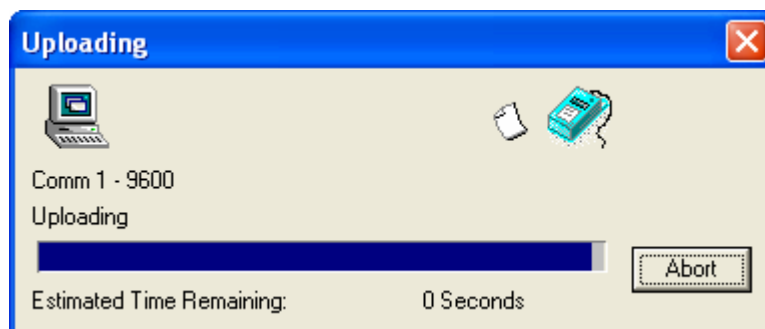


Click Next



Click OK

Make sure you tick the profiles box if you have configured them and your logger accepts them.



Wait for upload to finish

When uploading has finished you will be returned to the main Alarm Programmer window, and the conditions you have set will cause the logger to alarm out when they are exceeded.

Receiving Alarms

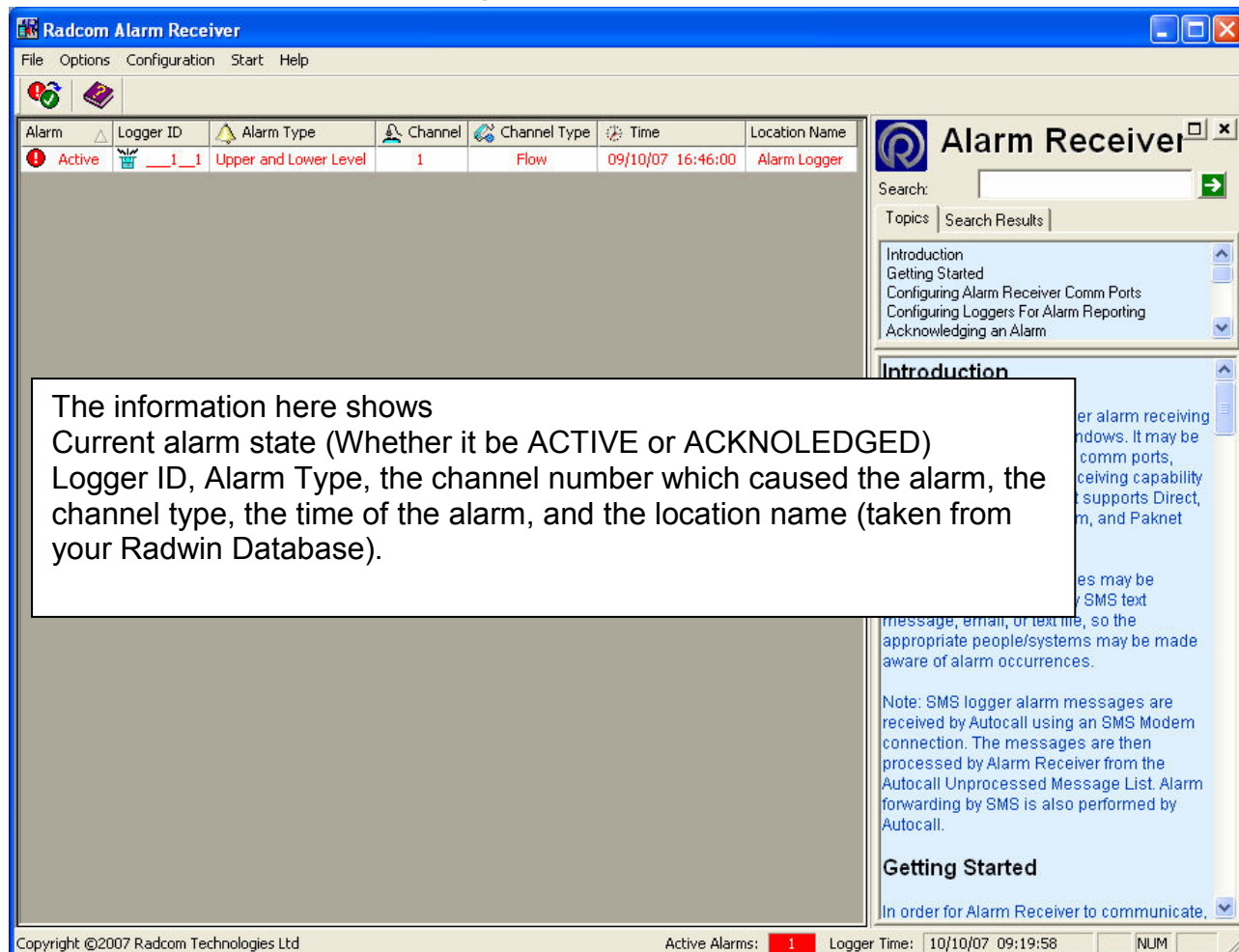
Alarm Receiver must be running to receive alarm messages. Without alarm receiver running Radwin will not be able to process messages. Ideally Alarm Receiver should be left running at all times.



Radwin User Guide

Alarm Programmer and Receiver

Alarm Receiver with messages



The information here shows
Current alarm state (Whether it be ACTIVE or ACKNOLEDGED)
Logger ID, Alarm Type, the channel number which caused the alarm, the channel type, the time of the alarm, and the location name (taken from your Radwin Database).

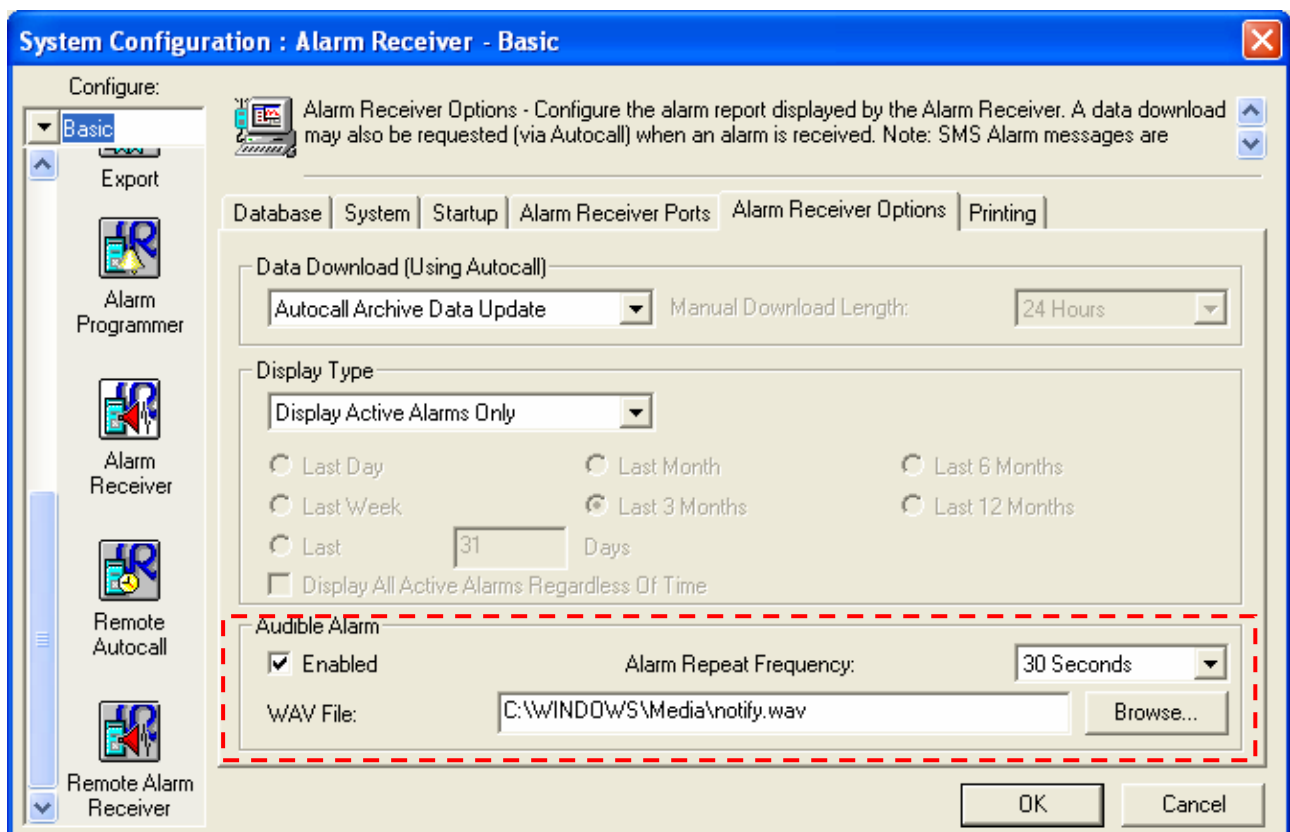
Copyright ©2007 Radcom Technologies Ltd

Active Alarms: 1 Logger Time: 10/10/07 09:19:58

Audible Warning

If an alarm is received you can set the Alarm Receiver program to make an audible warning sound (working sound card and speakers required).

From the Configuration menu select Basic Configuration



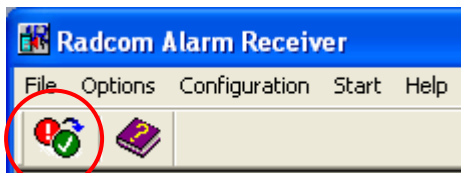
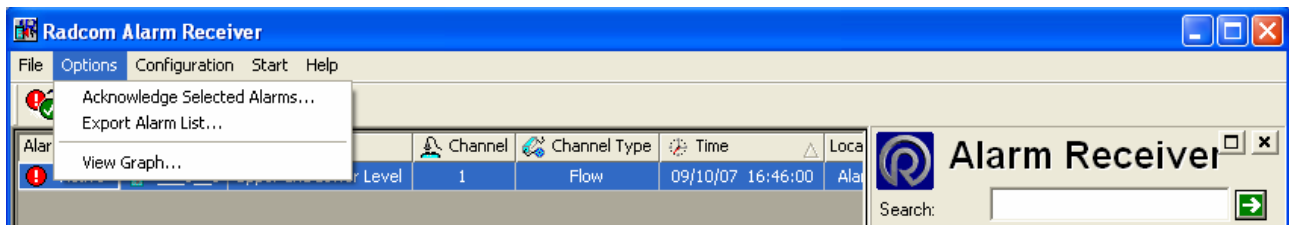
Alarm Receiver will play any WAV file as an audible alarm.

Tick the “Enabled” box and use the Browse button to select a WAV file. Select a repeat frequency from the drop down menu and the click OK.

When alarm messages are received the selected WAV file will play, and will be repeated at the interval you selected.

Options for dealing with an alarm

Acknowledge Alarm



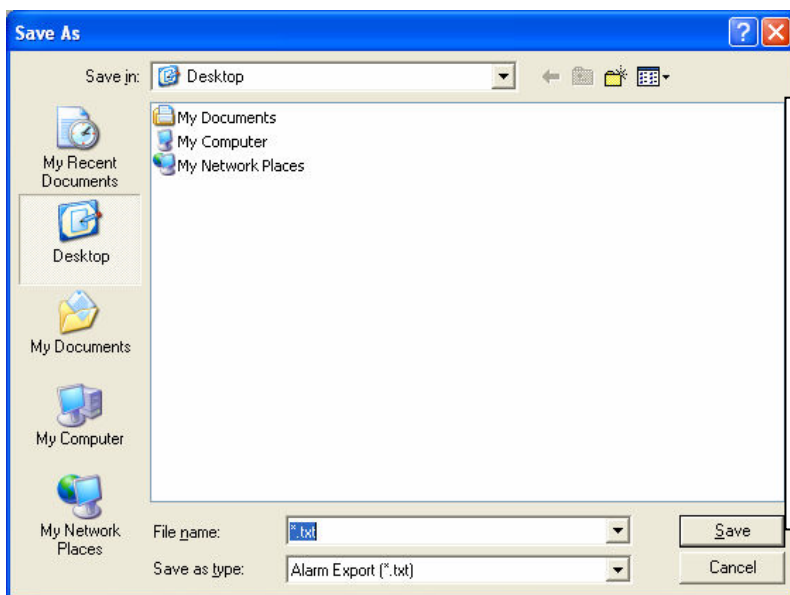
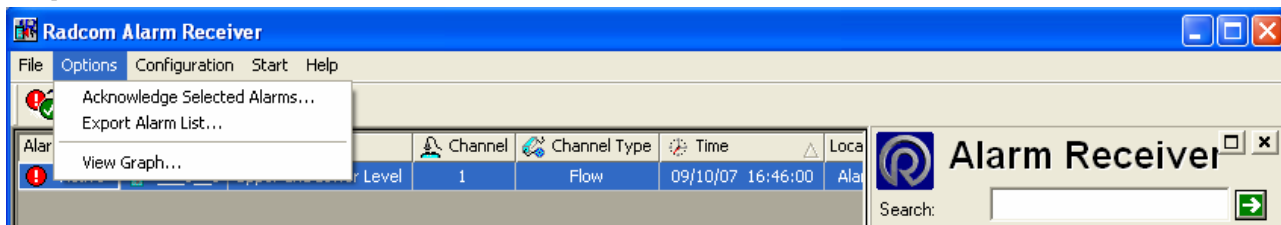
Select the alarm line to highlight it. Then pick Acknowledge Selected Alarms from the Options menu.

Or

Select the alarm line to highlight it, and then click the Acknowledge Alarms icon.

Multiple lines can be selected if required.

Export Alarm List



From the Options menu select Export Alarm List.

The window which pops up will enable you to save the alarm list as a text file.

The text file can then be imported to excel or any such program which accepts this type of data.

Example exported alarm list...

Alarm State	Logger ID	Alarm Type	Channel	Channel Type	Time	Location Name
Active	__1__1	Upper and Lower Level	1	Flow	09/10/07 16:46:00	Alarm Logger

Start Other Radwin Programs

Click the Start Menu at the top of the main Setup screen.
Click the component you need to use.

