Ref: FAQ0063	Version: 1.0
Title – Status channel configuration	
Made By: AB 07/10/14	(Issue 1)

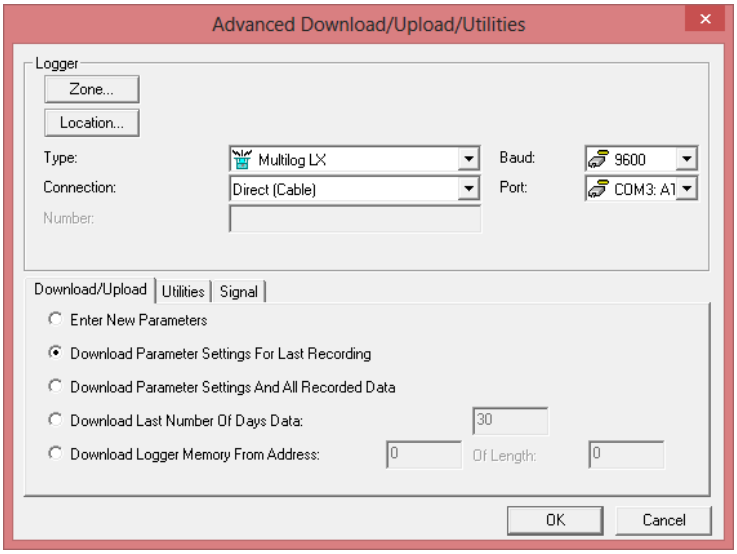
User Manual to Configure the Status Sensor for a GPRS Logger using Radwin Advanced Download/Upload/Utilities

Before you begin, you must ensure that:

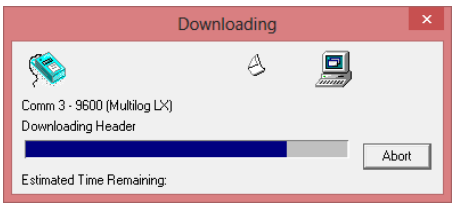
- The installed Radcom software is at least v4.55.
- The installed Firmware on the Lx Logger is at least v2.23.
- Ensure logger is 'stopped' (not recording)

Logger Configuration

To start programming your logger, select Download Options > Advanced Download/Upload /Utilities and select your Logger type from the drop-down menu, the Baud rate will automatically update.
Select the correct Comm port which the logger is connected to.
Click 'Download Parameter Settings For Last Recording' and click the 'OK' button to continue.



The information will then start downloading from the logger.



Click the 'Location' button to choose a new Location for the logger.

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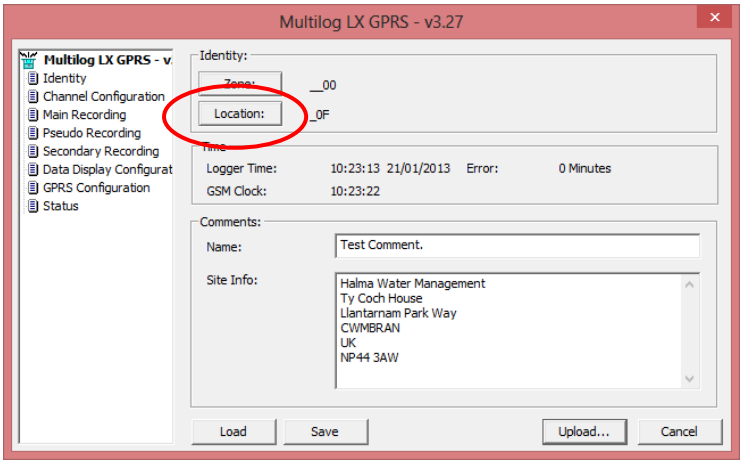
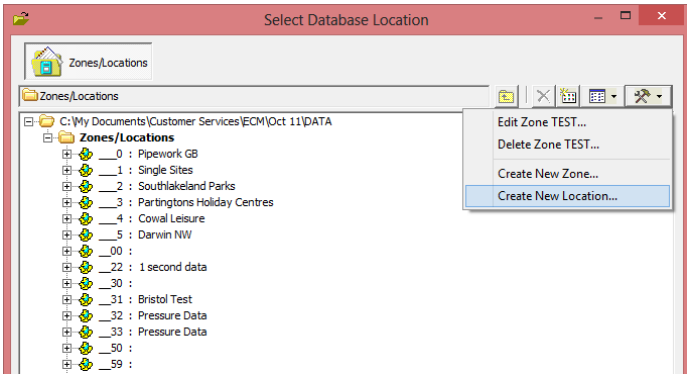
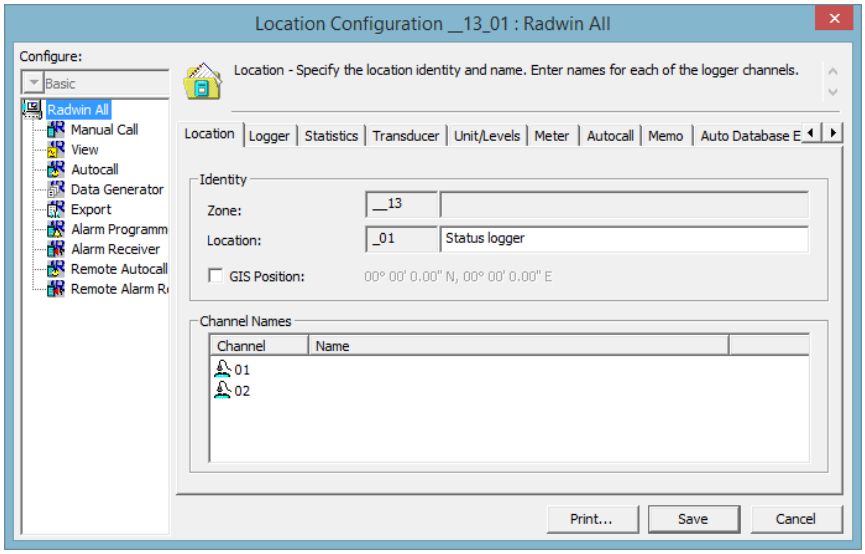


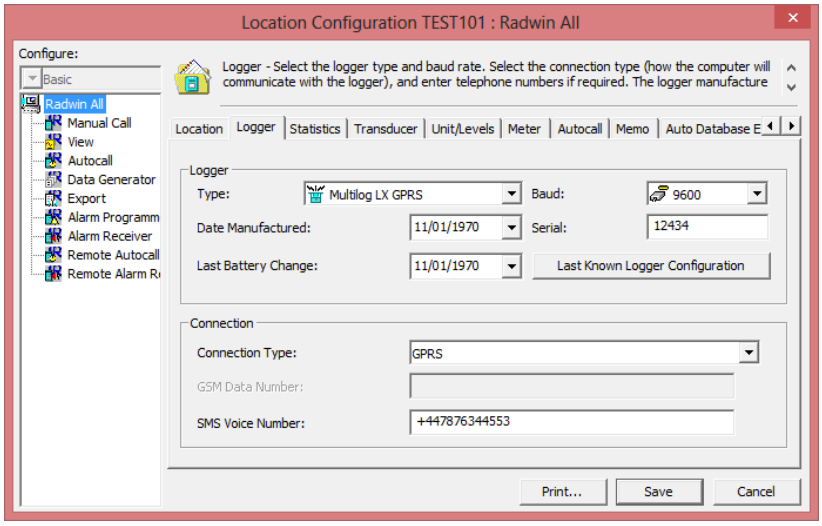
To create a new Location, select the Zone in which it is to be located, then click the 'Tools' button, and then click 'Create New Location…'.



The Location Configuration screen will open. Enter your new Location number (and comment if required) as highlighted below

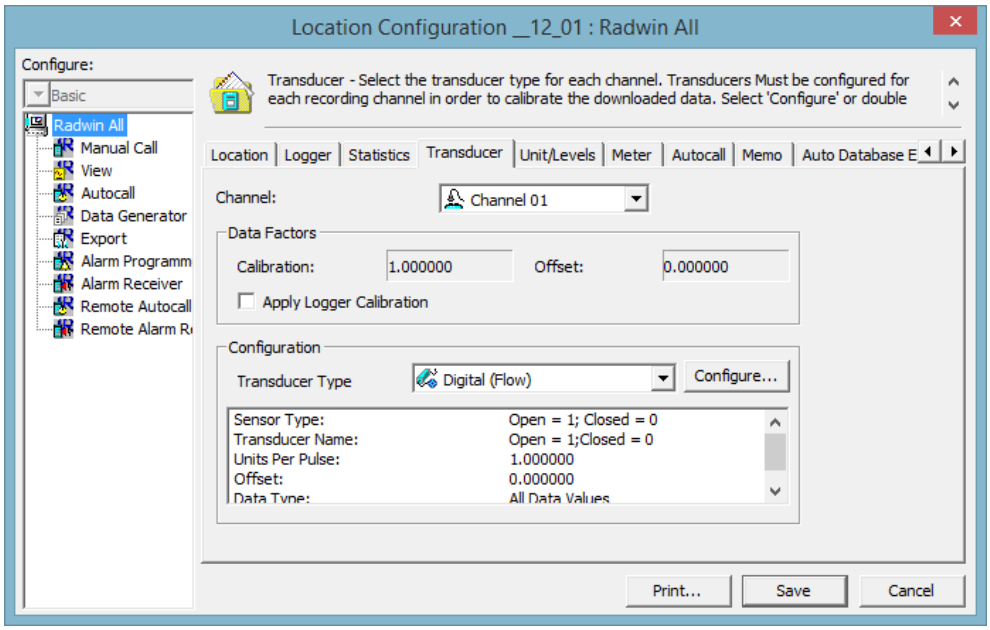


Click the 'Logger ' tab, and change the following:
Select 'GPRS' from the Connection Type drop down menu.
Enter the phone number of the logger in the SMS Voice Number text box **in international format (e.g. for UK +44)**.

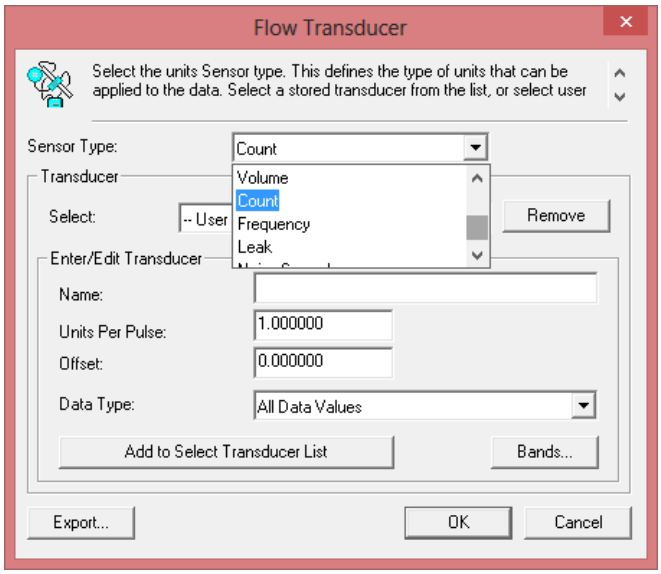


Click the 'Transducers' tab, select 'Channel 01' from the Channel drop down menu, and change the following:

Uncheck the 'Apply Logger Calibration' checkbox.
Select 'Digital (Flow)' from the Transducer Type drop down menu.



Change the Sensor Type to ‘Open =1 ; Closed =0’, by double clicking on ‘Sensor Type’ (as highlighted above), and choosing ‘’ from the Sensor Type drop down menu on the Flow Transducer screen.



Click the ‘OK’ button to exit the Flow Transducer screen.

Click the ‘Save’ button to exit this screen, and then double click on the Zone which you have just created.

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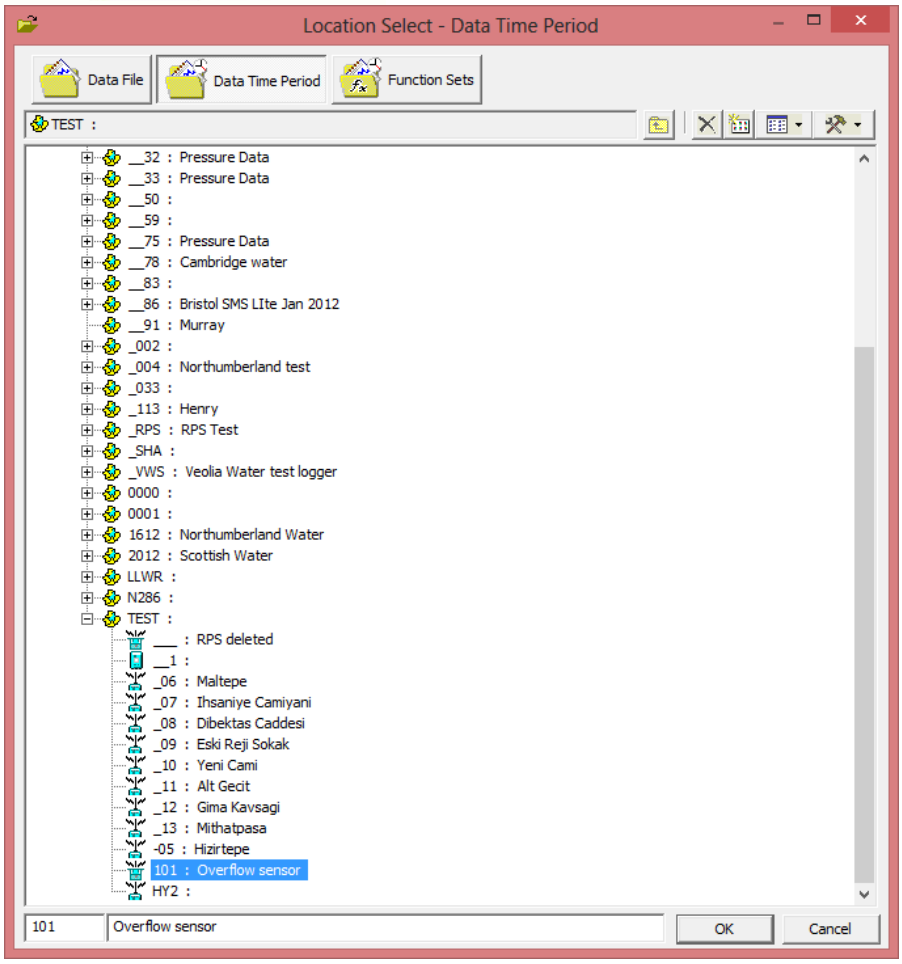

Click on the 'Main Recording' tab, and set the time and date you wish for the recording to start. Also select the rate which you want the data to be sampled at.
Select Cyclic Memory. (Cyclic Memory continues to record when the memory is full, by overwriting the first stored data stored in the memory.

For initial trialling a Sample Rate of 5 seconds is recommended – this may be extended to suit local requirements.

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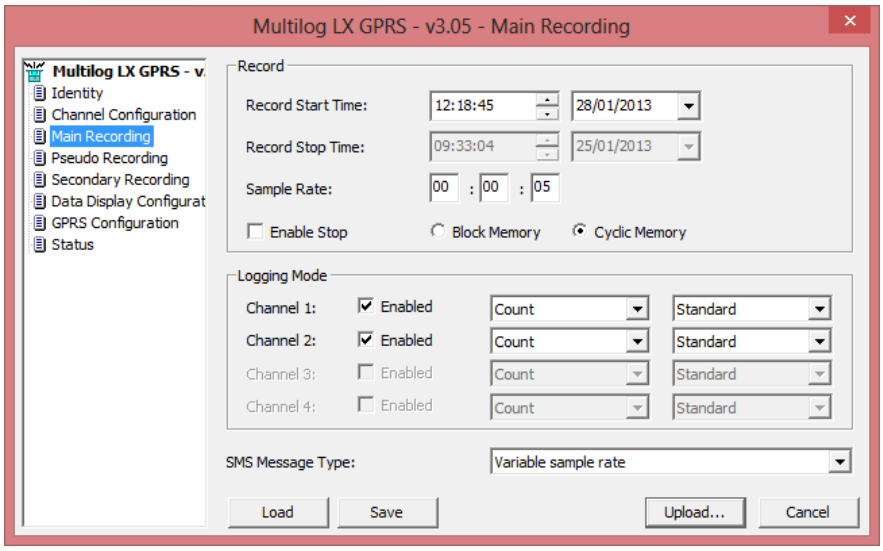
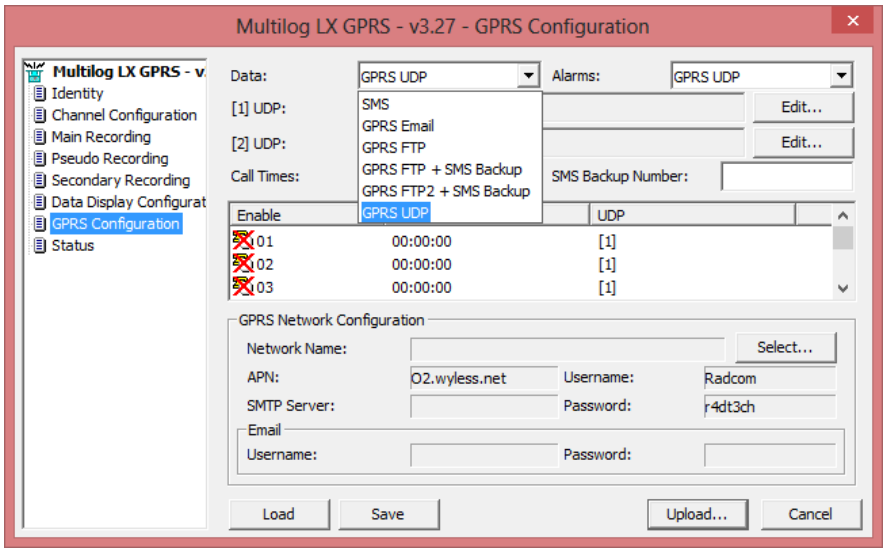
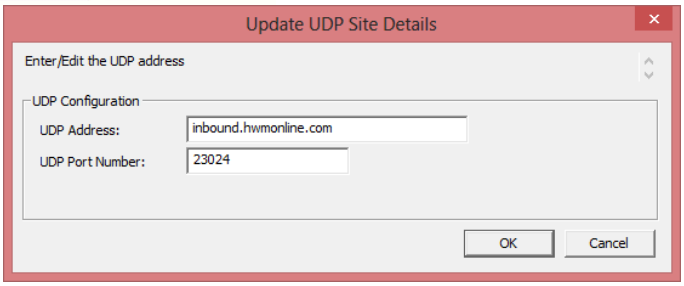
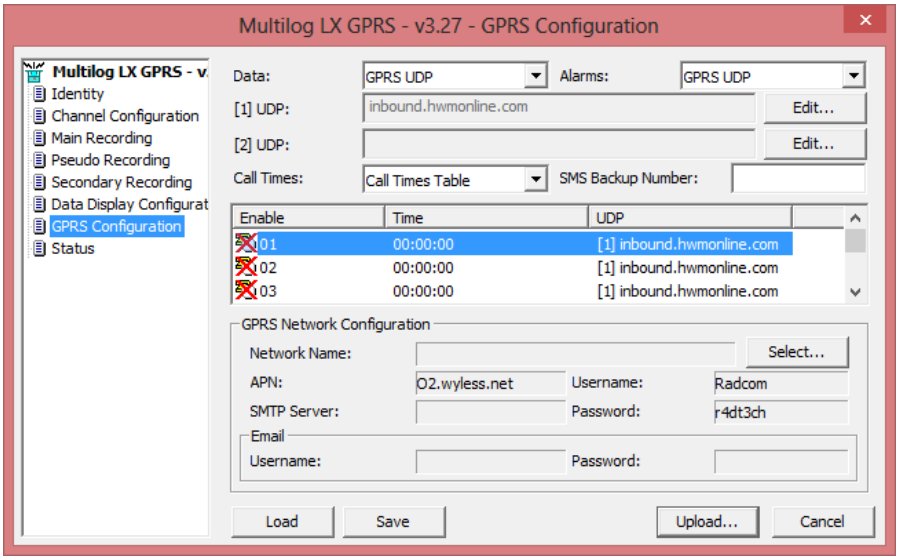


Click on the 'GPRS Configuration' tab and from the Data drop down select the GPRS method to be used:-

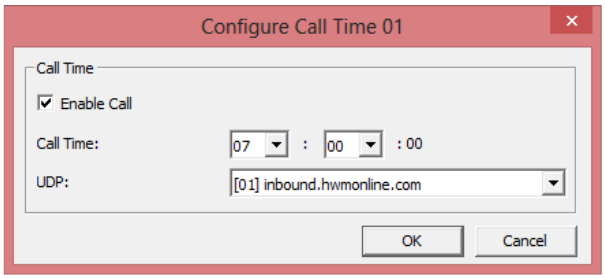


Click on 'Edit' and apply your site details (those for HWM Datagate are shown)



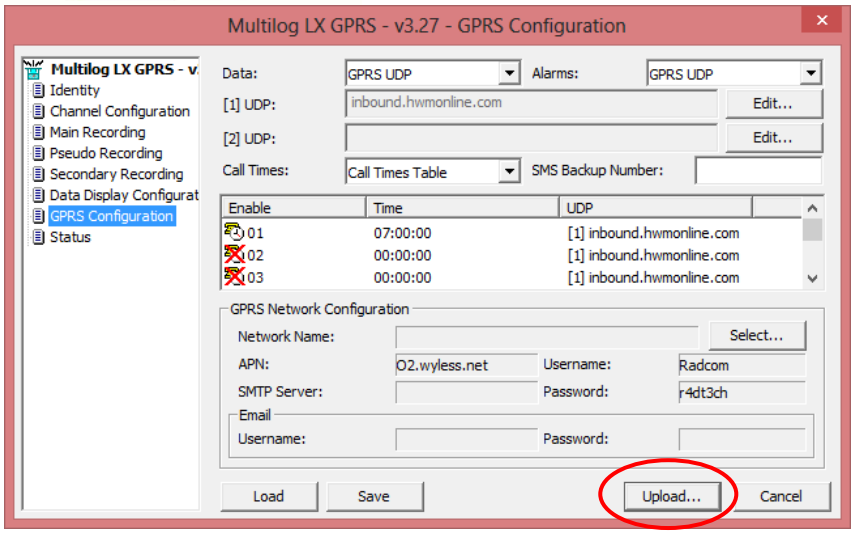


To enable the logger to send the data in, double click on the '01' line (as highlighted above).

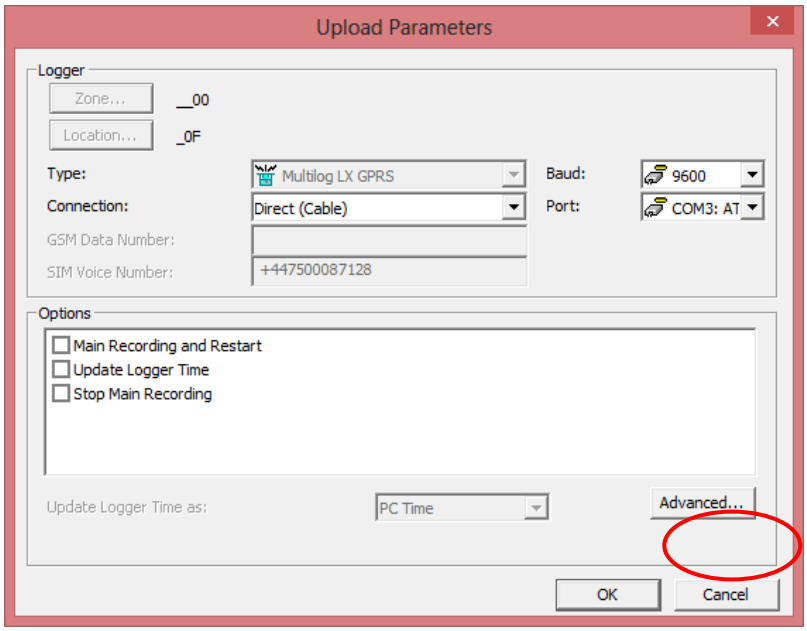


Check the 'Enable Call' checkbox, and then select the hours which you want the logger to dial to the modem. The minutes will automatically be generated from the serial number of the logger and cannot be changed (if you change it, it will default back at a later time).

Click the 'Upload' button to upload the parameters to the logger.



The Upload Parameters page will display.



Click the 'Advanced' button. Check the following checkboxes:

- Main Recording Params and Restart
- General Parameters
- Update Logger Time (this will enable the 'Update Logger Time as' drop down menu, where you can choose to set the logger time as the same time as your PC, or +/- up to 24 hours as required).
- SMS Parameters
- SIM Card Voice Number (this will enable the 'SIM Card Voice Number (in '+' international format)' text box where you must enter the phone number of the logger.

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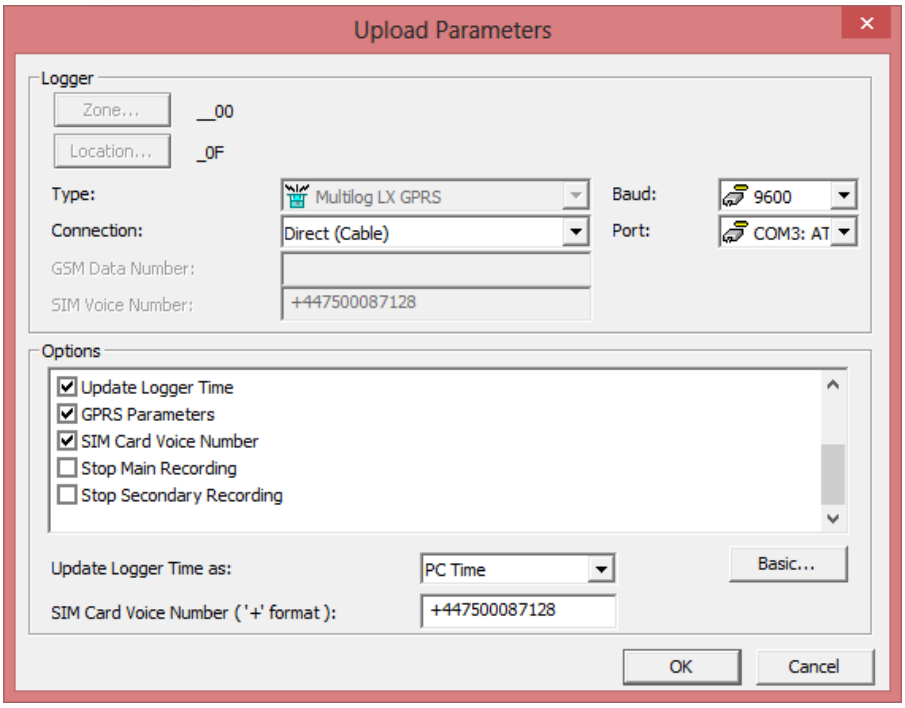
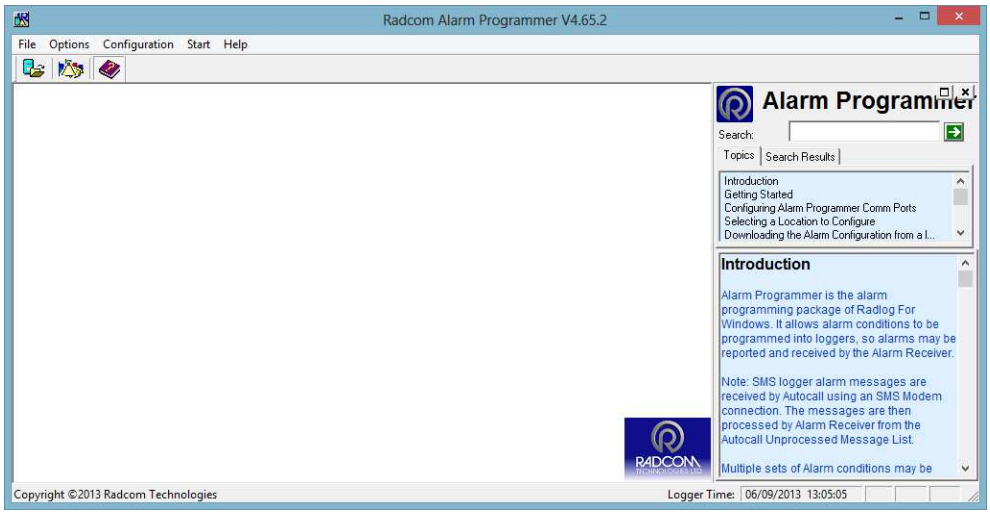


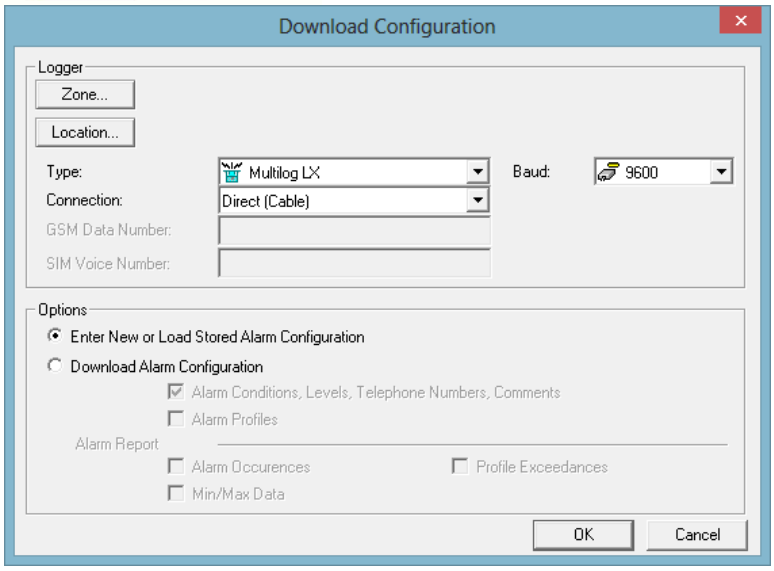
Click the 'OK' button to upload the parameters to the logger, and the Uploading box will appear. When this is complete the parameters have been uploaded to the logger.

Alarm setting

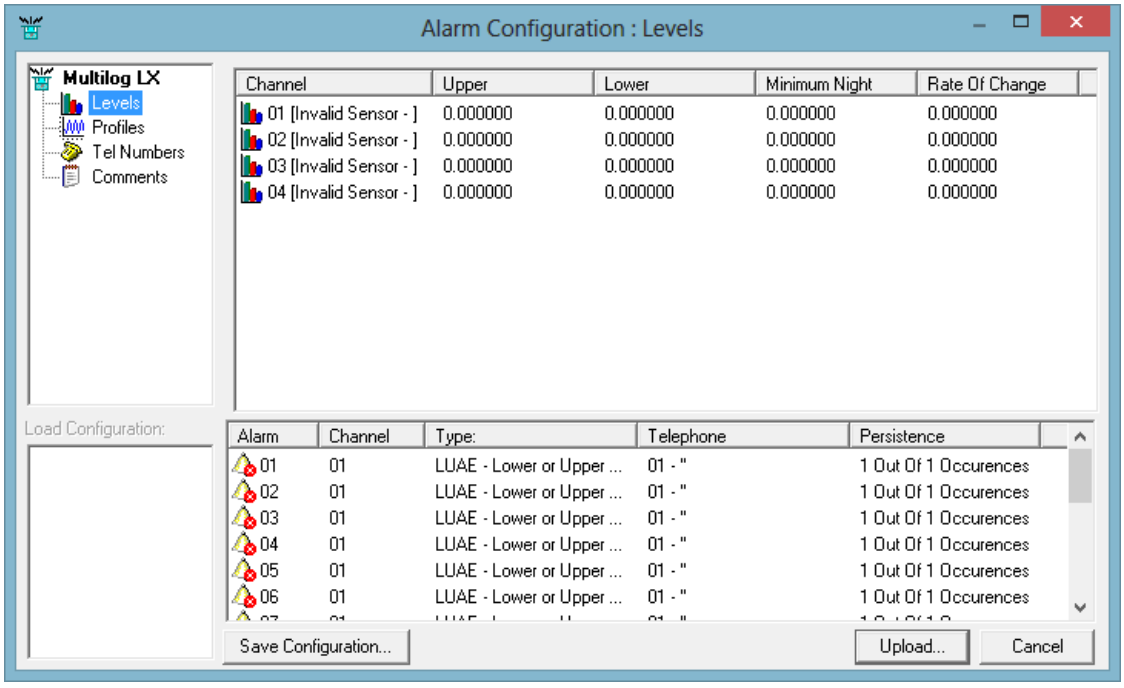
To set up alarms for the status sensor open Radwin alarm programmer –



Select Options, Alarm configuration
Select the correct Logger type, Connection by Direct (cable) and 'Enter New Alarm Configuration'. Then 'OK'

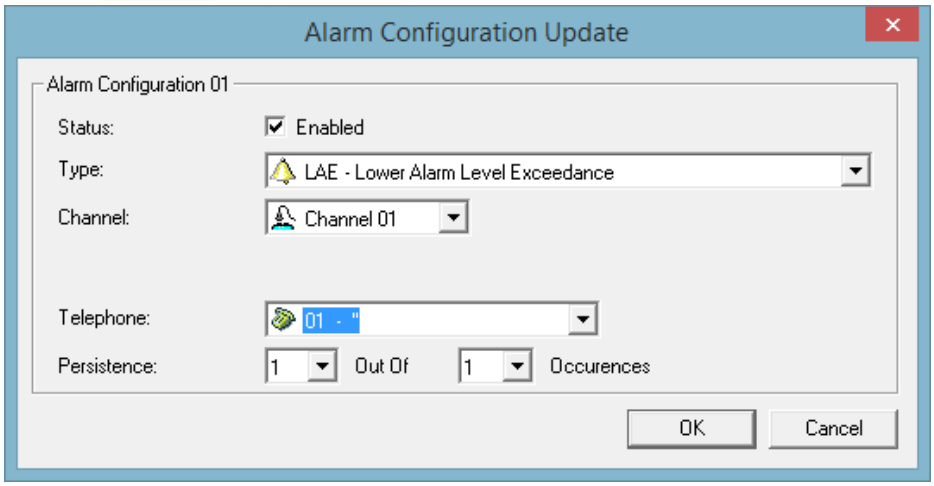


You should now see the alarm set up screen –



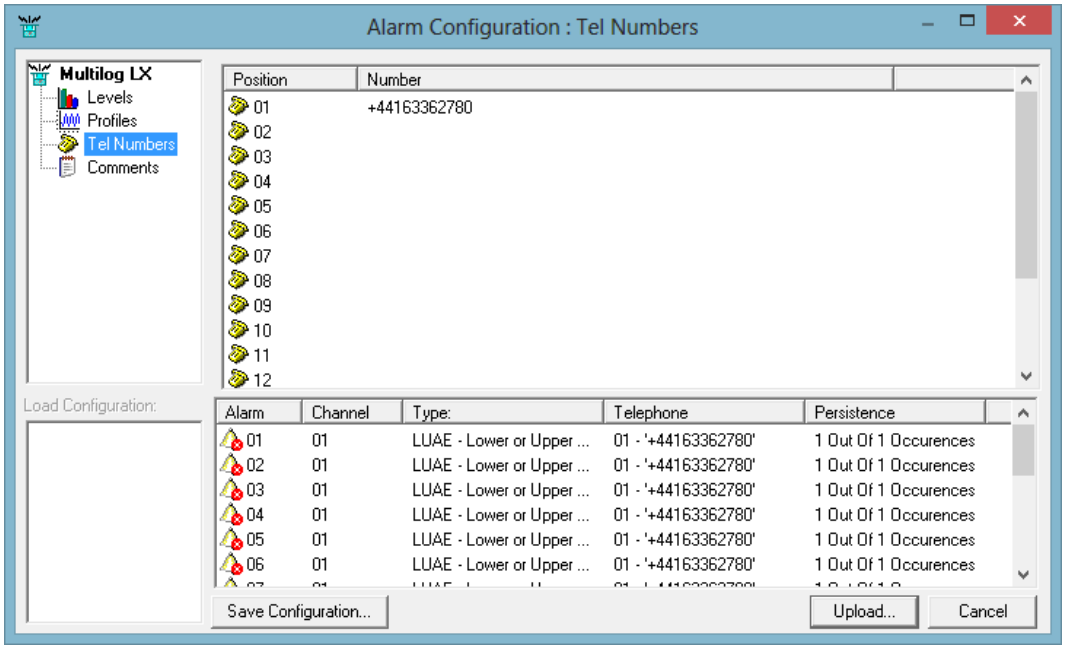
For alarm levels on Channel 1 – leave all the values at Zero. The normal 'Closed' event status event has a value of Zero and the 'Open' event has a value of 1 – so an alarm will trigger directly the

status moves away from Zero. Enable Alarm 01 on Channel 01 with a lower alarm level exceedance and a persistence of 1 out of 1 as below -

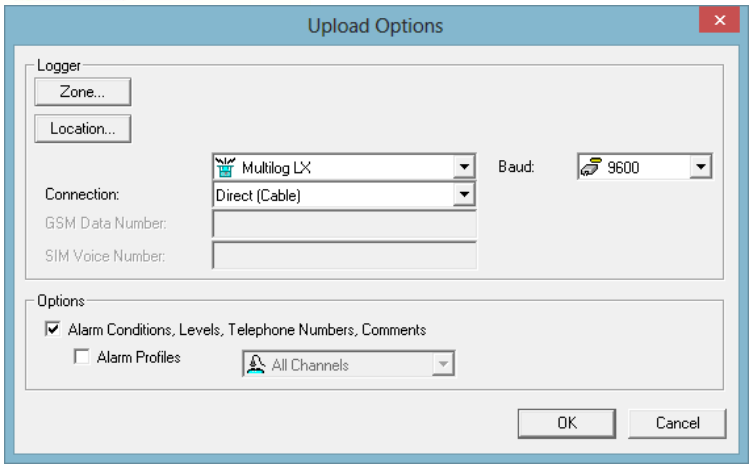


Apply a phone number for the alarm to be sent to.
If the phone number isn't yet in your phone book go to the Tel Numbers tab -

In the Tel Numbers list insert the phone numbers that you want the Alarms to be sent to. Double click on each to insert the numbers.



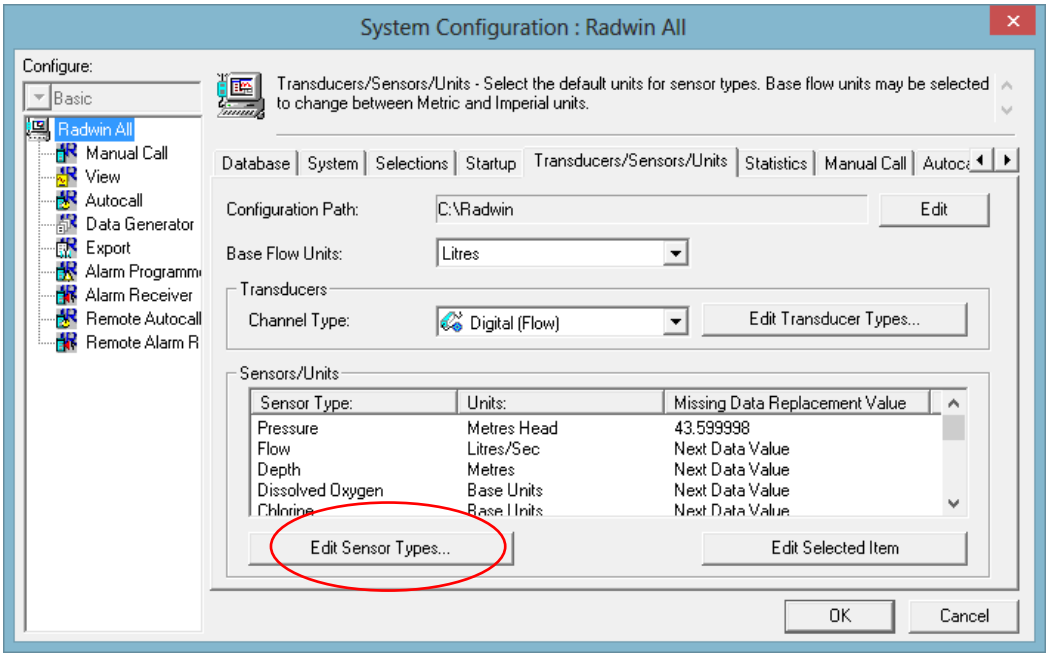
Then select 'Upload' to load the alarm configuration to the logger –



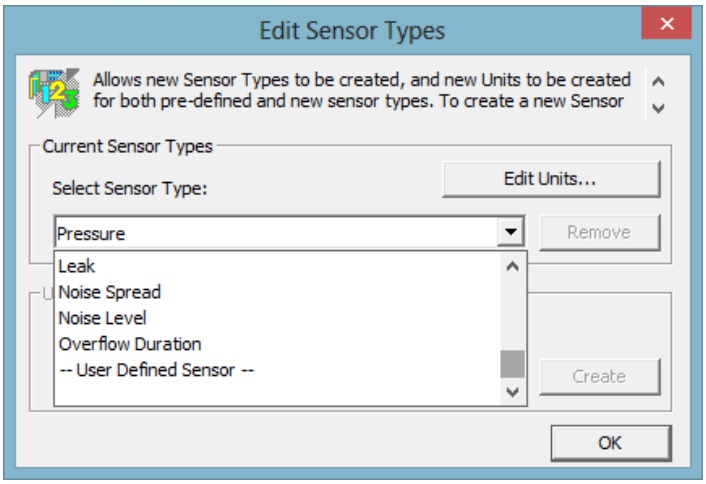
And select 'OK' to complete

If you are going to use Radwin to view the graphs of the data at any time you will need to create a Special Transducer type in order for the titles on the Graph axis to appear correct.

To do this go to Radwin Set Up > Options > System Configuration > 'Transducers/Sensors/Units' tab –

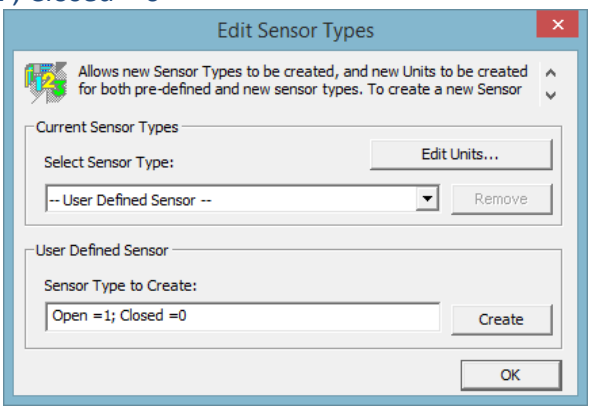


Select Edit Sensor Types –

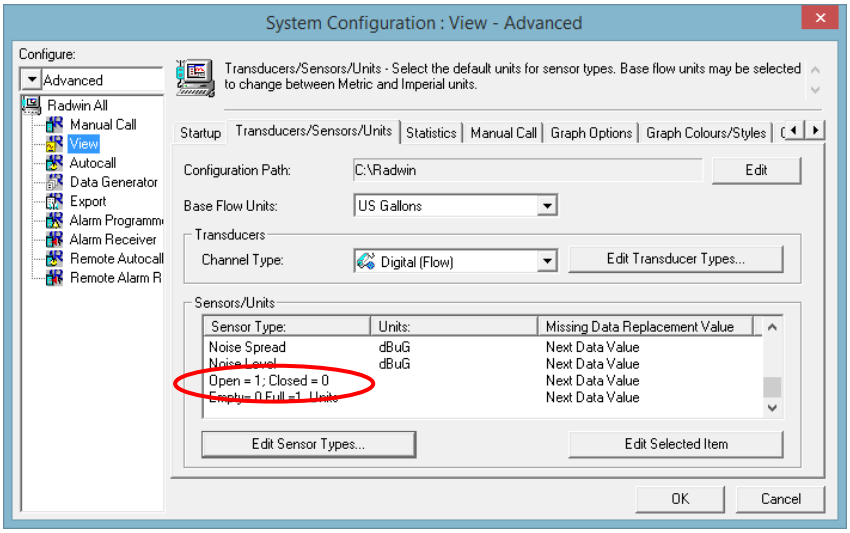


From the 'Select Sensor Type' drop down select –User Defined Sensor—

Create a Sensor – Open = 1 ; Closed = 0



Then Select OK to save it (see below)



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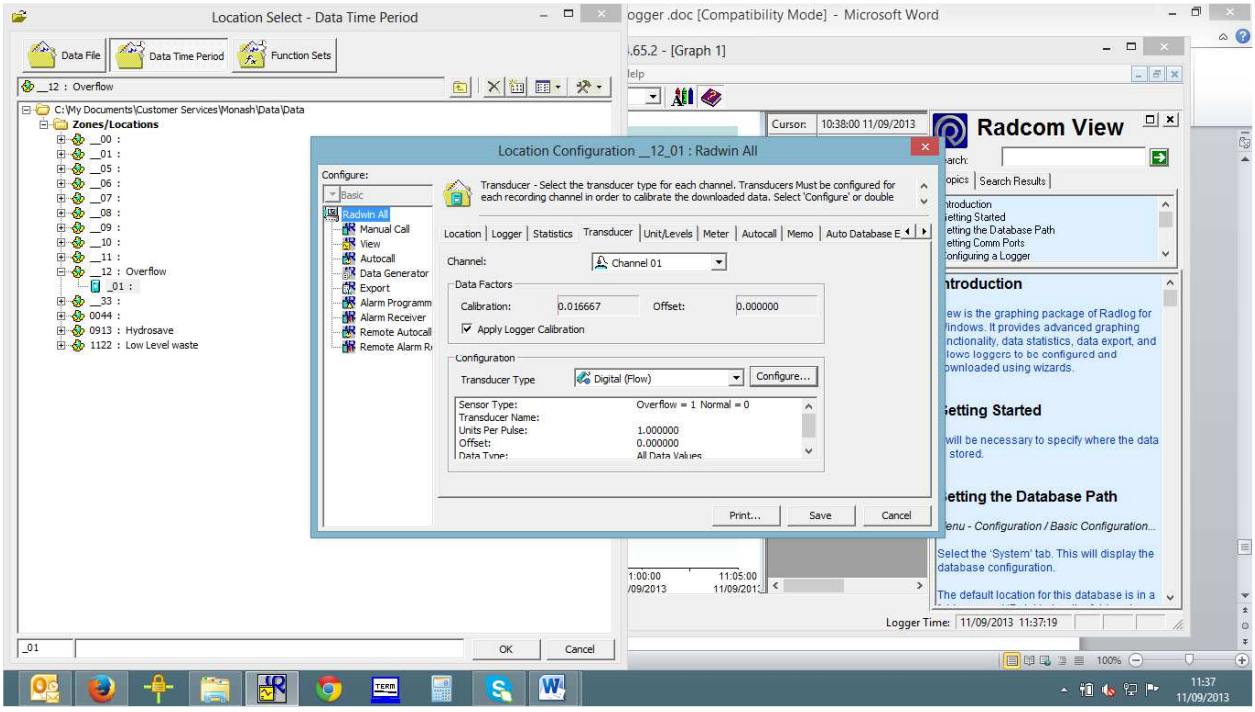
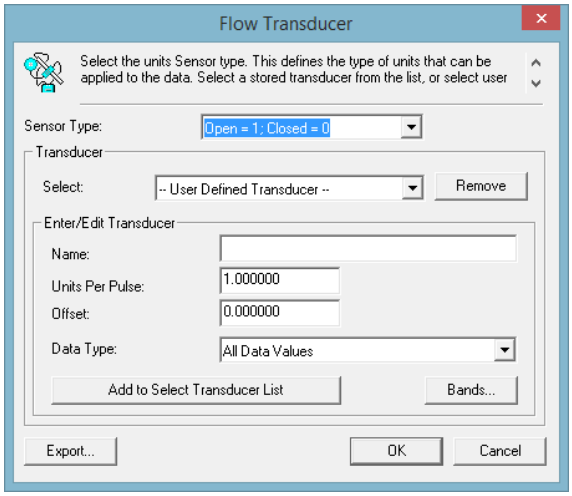
In the location Database for the logger you will need to select this Sensor type so that it appears on the Y axis of the graph –

Go to the Radwin Data File, find the logger,right click on it and select 'Location Database' and 'Edit location' and select the transducers tab –



Then select 'Configure' and from the Transducer type drop down select 'Open = 1 ;Closed = 0'



Now when you view the graph the X Axis will show the timescale and the Y axis will show the Open and Closed events –

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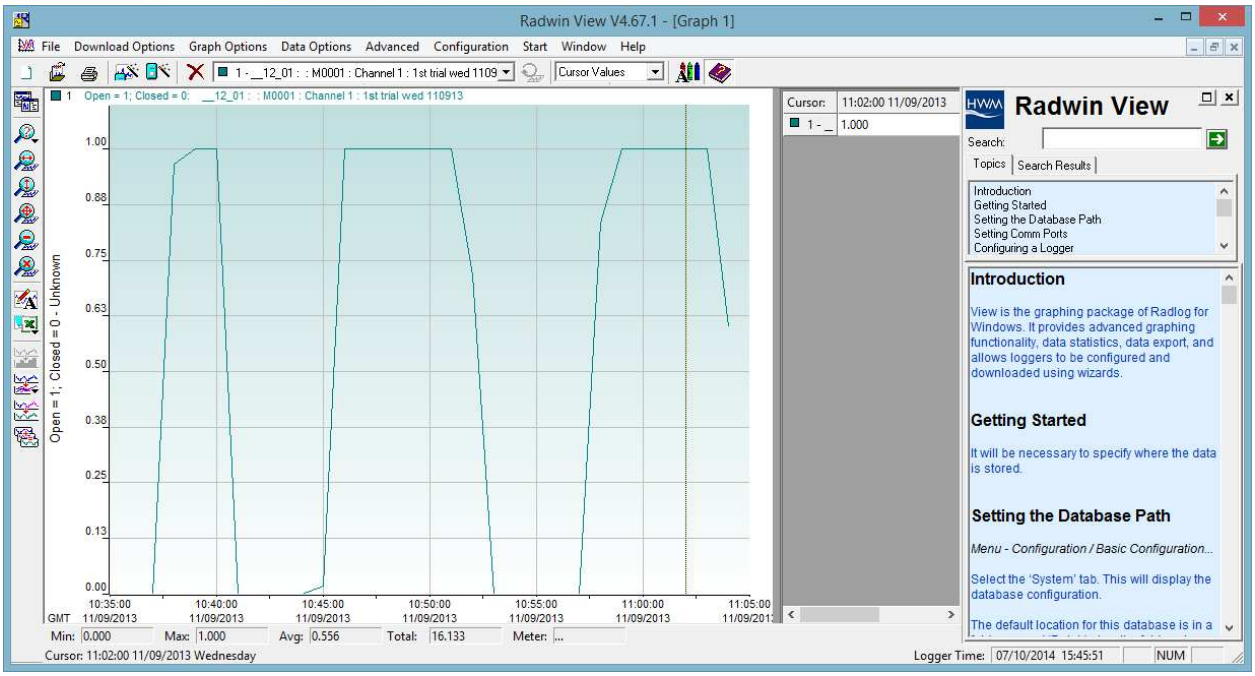

The Horizontal portions of the graph at level = 1 are the durations of the Open events. The angles in the vertical lines of the graph indicate where the Open event has occurred across one of the 1 minute sample rate boundaries.

Document History:

Edition	Date of Issue	Modification	Notes
1st	07/10/14	Release	

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