



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:

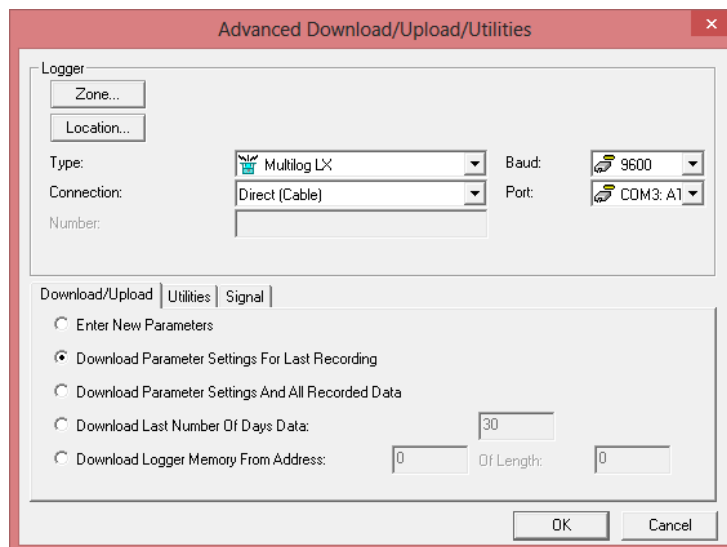
- The installed Radcom software is at least v4.55.
- The installed Firmware on the Lx Logger is at least v2.23.
- Ensure logger is 'stopped' (not recording)

Logger Configuration

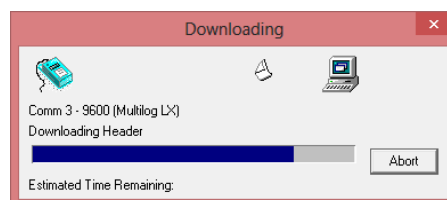
To start programming your logger, select Download Options > Advanced Download/Upload /Utilities and select your Logger type from the drop-down menu, the Baud rate will automatically update.

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.



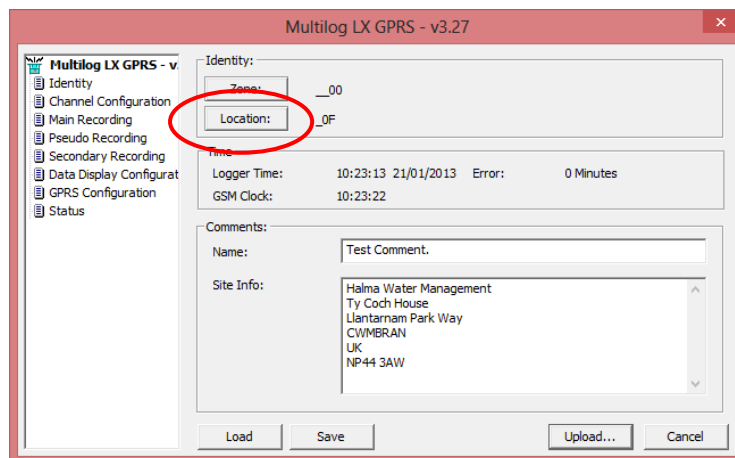
Ref: FAQ0063

Version: 1.0

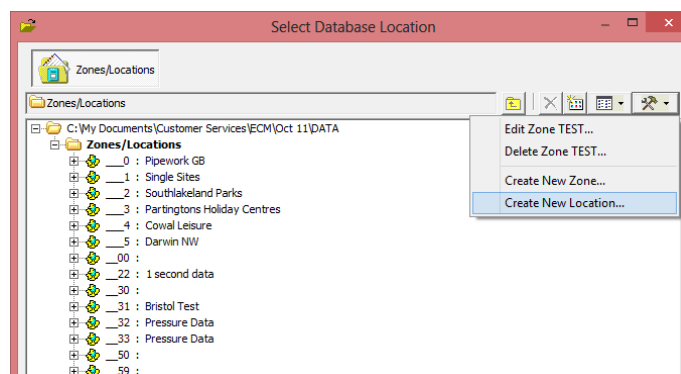
Title – Status channel configuration

Made By: AB 07/10/14

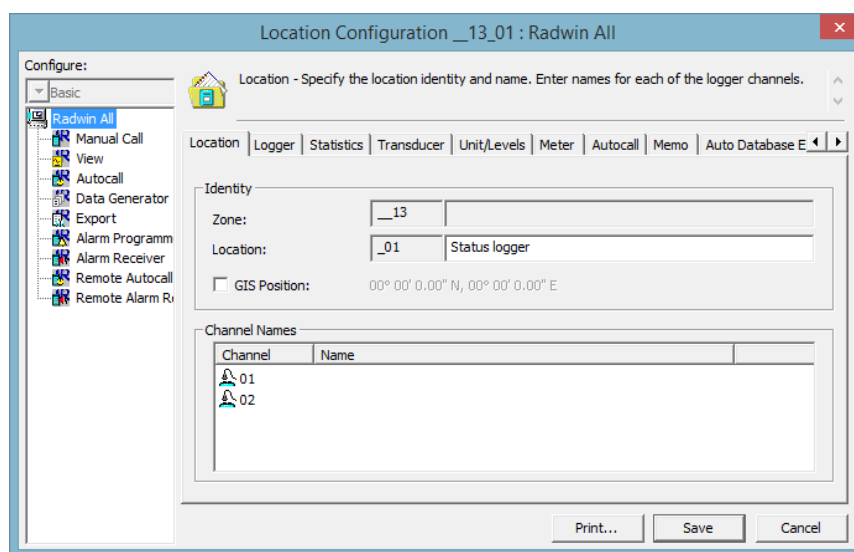
(Issue 1)



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





Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

Made By: AB 07/10/14

(Issue 1)

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.



Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

Made By: AB 07/10/14

(Issue 1)

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.

The image shows a software window titled "Flow Transducer". At the top, it says "Select the units Sensor type. This defines the type of units that can be applied to the data. Select a stored transducer from the list, or select user". Below this, there is a "Sensor Type:" dropdown menu currently set to "Count". To the right of this menu is a list of transducer types: "Volume", "Count" (highlighted), "Frequency", and "Leak". There is a "Remove" button next to this list. Below the list, there is a section for "Enter/Edit Transducer" with fields for "Name:", "Units Per Pulse:" (set to 1.000000), "Offset:" (set to 0.000000), and "Data Type:" (set to "All Data Values"). At the bottom of this section are buttons for "Add to Select Transducer List" and "Bands...". At the very bottom of the window are buttons for "Export...", "OK", and "Cancel".

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.



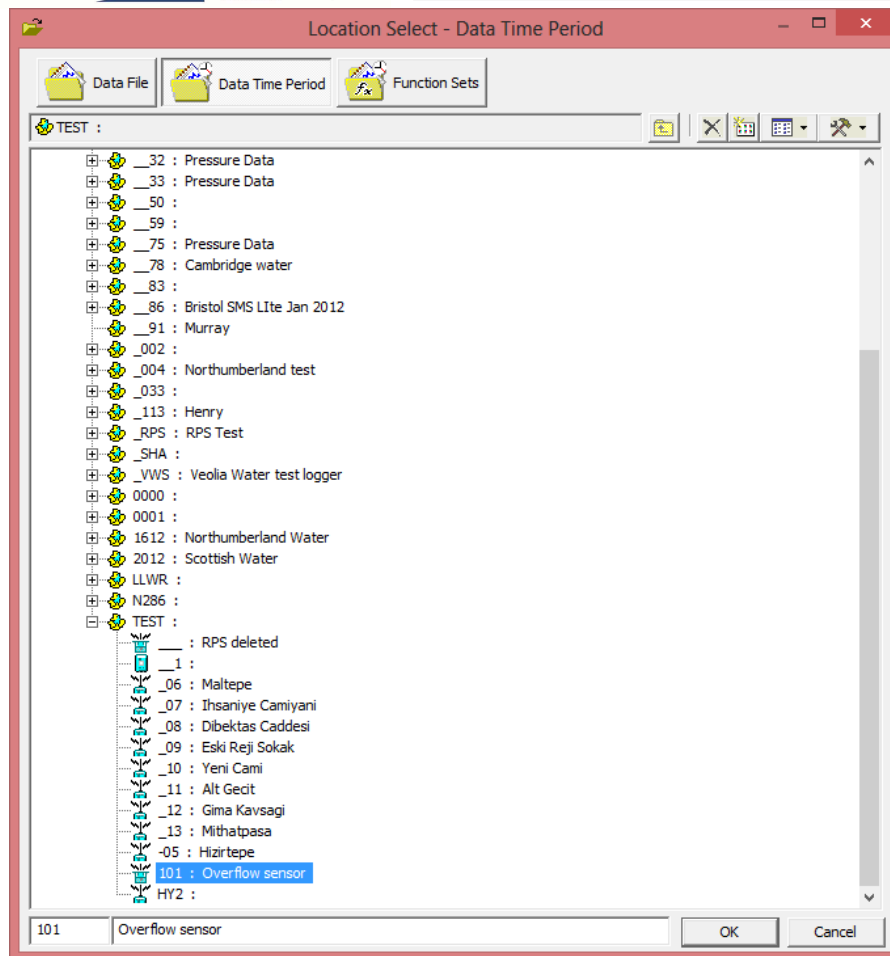
Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

Made By: AB 07/10/14

(Issue 1)



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.



Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

Made By: AB 07/10/14

(Issue 1)

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)



Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

Made By: AB 07/10/14

(Issue 1)

Update UDP Site Details

Enter/Edit the UDP address

UDP Configuration

UDP Address: inbound.hwmonline.com

UDP Port Number: 23024

OK Cancel

Multilog LX GPRS - v3.27 - GPRS Configuration

Data: GPRS UDP Alarms: GPRS UDP

[1] UDP: inbound.hwmonline.com Edit...

[2] UDP: Edit...

Call Times: Call Times Table SMS Backup Number:

Enable	Time	UDP
<input checked="" type="checkbox"/> 01	00:00:00	[1] inbound.hwmonline.com
<input checked="" type="checkbox"/> 02	00:00:00	[1] inbound.hwmonline.com
<input checked="" type="checkbox"/> 03	00:00:00	[1] inbound.hwmonline.com

GPRS Network Configuration

Network Name: Select...

APN: 02.wyless.net Username: Radcom

SMTP Server: Password: r4dt3ch

Email Username: Password:

Load Save Upload... Cancel

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

Configure Call Time 01

Call Time

☒ Enable Call

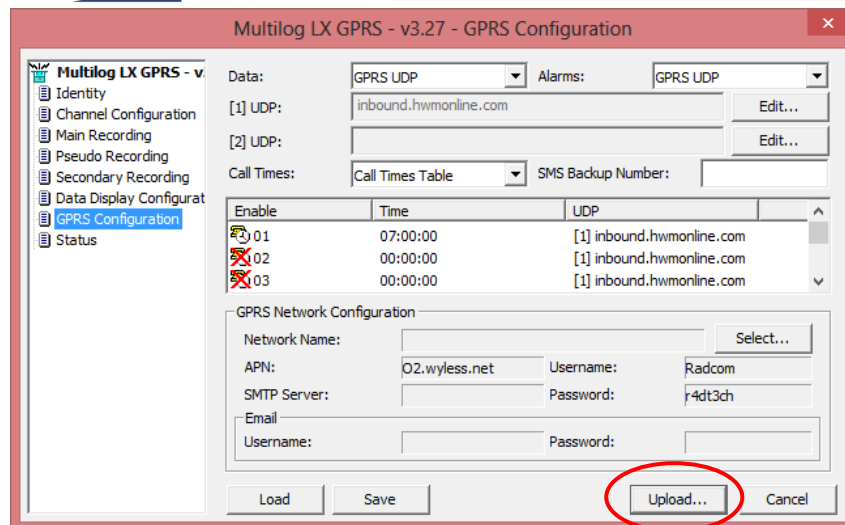
Call Time: 07 : 00 : 00

UDP: [01] inbound.hwmonline.com

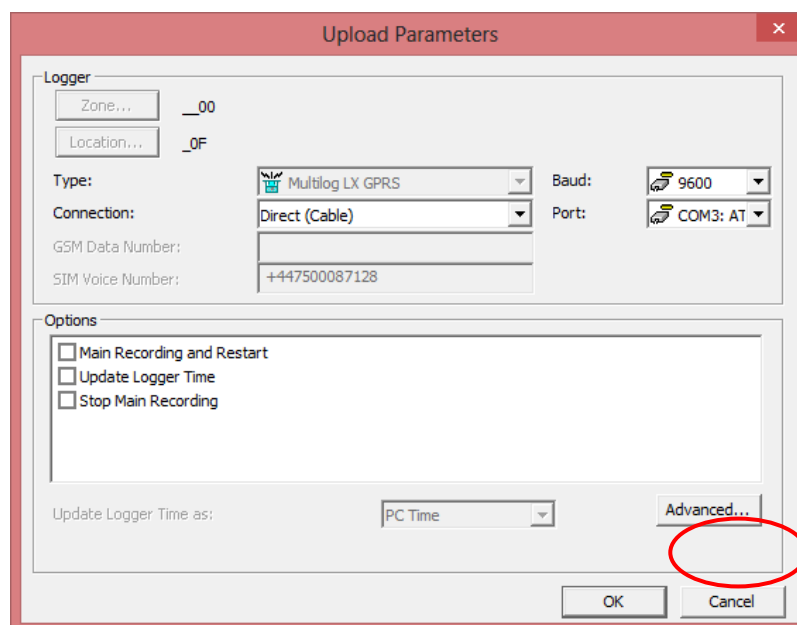
OK Cancel

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).



Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

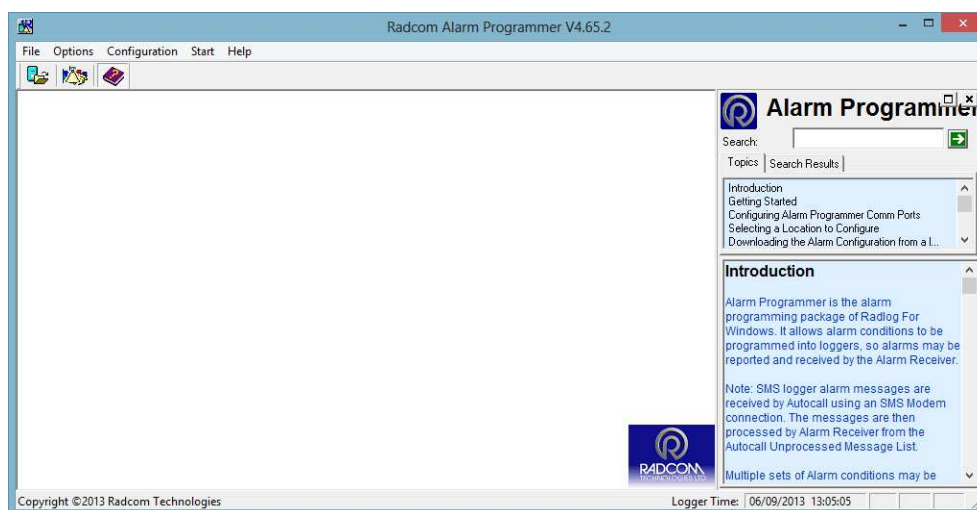
Made By: AB 07/10/14

(Issue 1)

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'



Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

Made By: AB 07/10/14

(Issue 1)

The 'Download Configuration' dialog box contains the following fields and options:

- Logger:**
 - Zone... (button)
 - Location... (button)
 - Type: Multilog LX (dropdown)
 - Connection: Direct (Cable) (dropdown)
 - GSM Data Number: (text field)
 - SIM Voice Number: (text field)
 - Baud: 9600 (dropdown)
- Options:**
 - ☒ Enter New or Load Stored Alarm Configuration
 - ☐ Download Alarm Configuration
 - ☒ Alarm Conditions, Levels, Telephone Numbers, Comments
 - ☐ Alarm Profiles
 - Alarm Report:
 - ☐ Alarm Occurrences
 - ☐ Profile Exceedances
 - ☐ Min/Max Data

Buttons: OK, Cancel

You should now see the alarm set up screen –

The 'Alarm Configuration : Levels' dialog box shows the following configuration:

Channel	Upper	Lower	Minimum Night	Rate Of Change
01 [Invalid Sensor -]	0.000000	0.000000	0.000000	0.000000
02 [Invalid Sensor -]	0.000000	0.000000	0.000000	0.000000
03 [Invalid Sensor -]	0.000000	0.000000	0.000000	0.000000
04 [Invalid Sensor -]	0.000000	0.000000	0.000000	0.000000

Alarm	Channel	Type:	Telephone	Persistence
01	01	LUAE - Lower or Upper ...	01 - "	1 Out Of 1 Occurrences
02	01	LUAE - Lower or Upper ...	01 - "	1 Out Of 1 Occurrences
03	01	LUAE - Lower or Upper ...	01 - "	1 Out Of 1 Occurrences
04	01	LUAE - Lower or Upper ...	01 - "	1 Out Of 1 Occurrences
05	01	LUAE - Lower or Upper ...	01 - "	1 Out Of 1 Occurrences
06	01	LUAE - Lower or Upper ...	01 - "	1 Out Of 1 Occurrences
07	01	LUAE - Lower or Upper ...	01 - "	1 Out Of 1 Occurrences

Buttons: Save Configuration..., Upload..., Cancel

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 -



Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

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(Issue 1)

Alarm Configuration Update

Alarm Configuration 01

Status: ☒ Enabled

Type: LAE - Lower Alarm Level Exceedance

Channel: Channel 01

Telephone: 01 - "

Persistence: 1 Out Of 1 Occurrences

OK Cancel

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.

Alarm Configuration : Tel Numbers

Multilog LX

- Levels
- Profiles
- Tel Numbers
- Comments

Load Configuration:

Position	Number
01	+44163362780
02	
03	
04	
05	
06	
07	
08	
09	
10	
11	
12	

Alarm	Channel	Type:	Telephone	Persistence
01	01	LUAE - Lower or Upper ...	01 - '+44163362780'	1 Out Of 1 Occurrences
02	01	LUAE - Lower or Upper ...	01 - '+44163362780'	1 Out Of 1 Occurrences
03	01	LUAE - Lower or Upper ...	01 - '+44163362780'	1 Out Of 1 Occurrences
04	01	LUAE - Lower or Upper ...	01 - '+44163362780'	1 Out Of 1 Occurrences
05	01	LUAE - Lower or Upper ...	01 - '+44163362780'	1 Out Of 1 Occurrences
06	01	LUAE - Lower or Upper ...	01 - '+44163362780'	1 Out Of 1 Occurrences
07	01	LUAE - Lower or Upper ...	01 - '+44163362780'	1 Out Of 1 Occurrences

Save Configuration... Upload... Cancel

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



Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

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(Issue 1)

Upload Options

Logger

Zone...

Location...

Connection: Multilog LX Direct (Cable)

GSM Data Number:

SIM Voice Number:

Baud: 9600

Options

☒ Alarm Conditions, Levels, Telephone Numbers, Comments

☐ Alarm Profiles

All Channels

OK Cancel

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 –

System Configuration : Radwin All

Configure:

Basic

Radwin All

Manual Call View

Autocall

Data Generator

Export

Alarm Programme

Alarm Receiver

Remote Autocall

Remote Alarm R

Transducers/Sensors/Units - Select the default units for sensor types. Base flow units may be selected to change between Metric and Imperial units.

Database System Selections Startup Transducers/Sensors/Units Statistics Manual Call Autocall

Configuration Path: C:\Radwin Edit

Base Flow Units: Litres

Transducers

Channel Type: Digital (Flow) Edit Transducer Types...

Sensors/Units

Sensor Type:	Units:	Missing Data Replacement Value
Pressure	Metres Head	43.599998
Flow	Litres/Sec	Next Data Value
Depth	Metres	Next Data Value
Dissolved Oxygen	Base Units	Next Data Value
Chlorine	Base Units	Next Data Value

Edit Sensor Types... Edit Selected Item

OK Cancel

Select Edit Sensor Types –



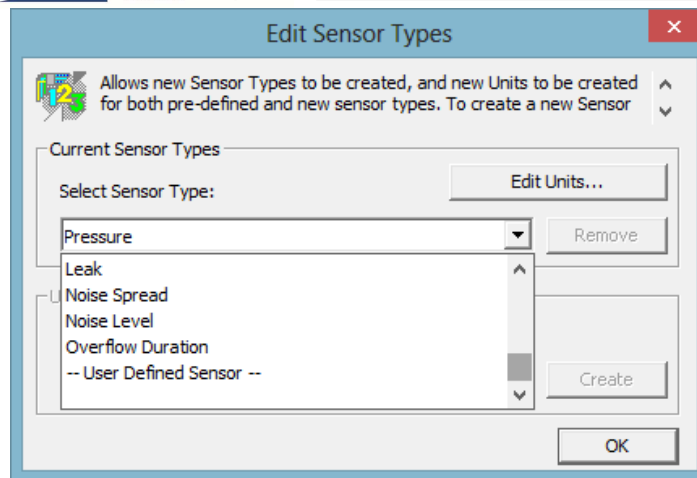
Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

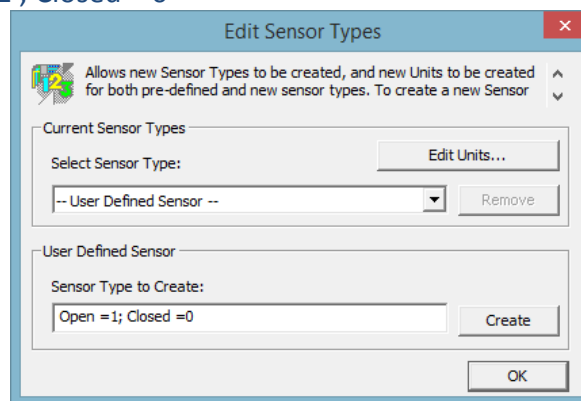
Made By: AB 07/10/14

(Issue 1)

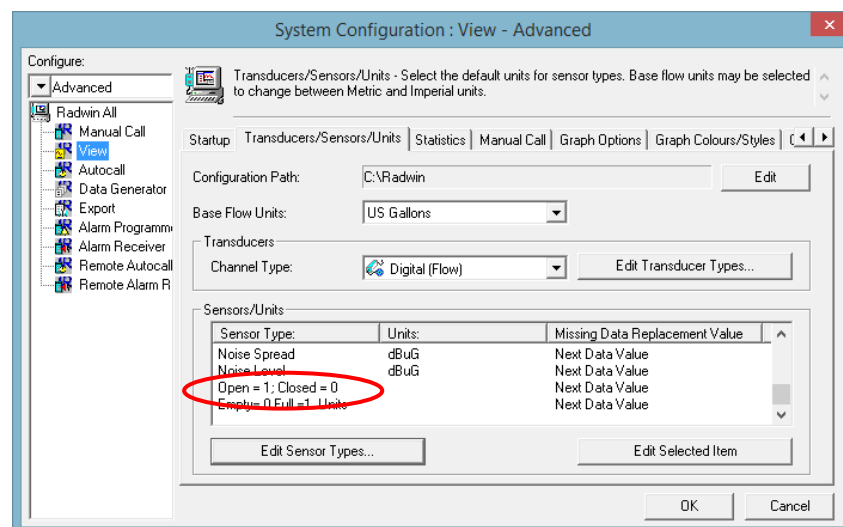


From the 'Select Sensor Type' drop down select –User Defined Sensor–

Create a Sensor – Open = 1 ; Closed = 0



Then Select OK to save it (see below)





Ref: FAQ0063

Version: 1.0

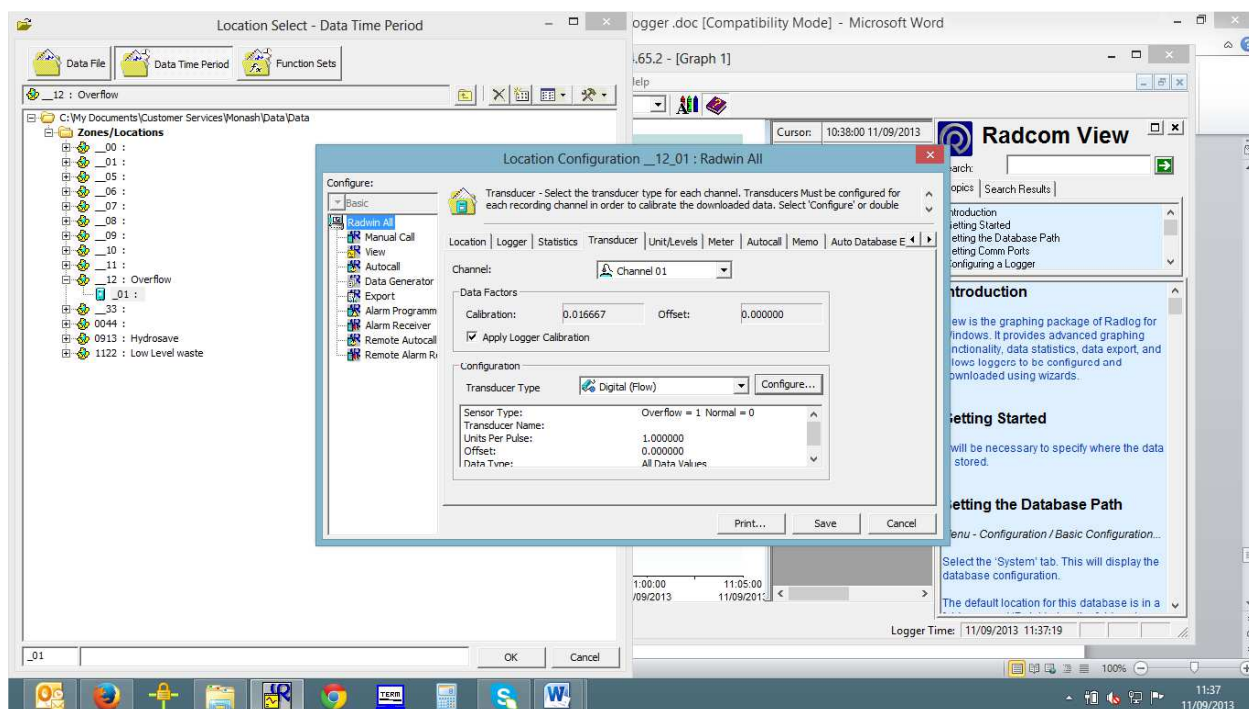
Title – Status channel configuration

Made By: AB 07/10/14

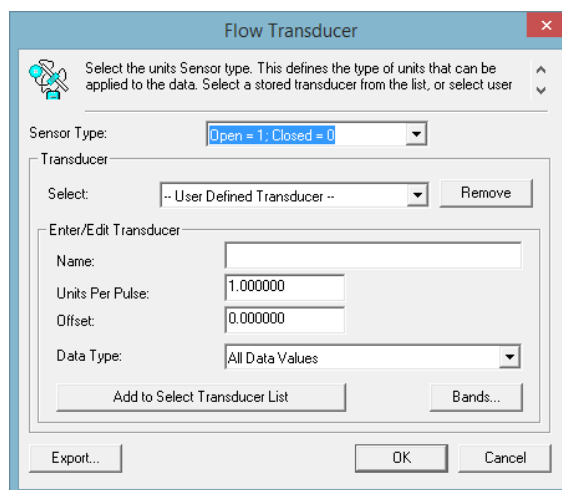
(Issue 1)

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 –



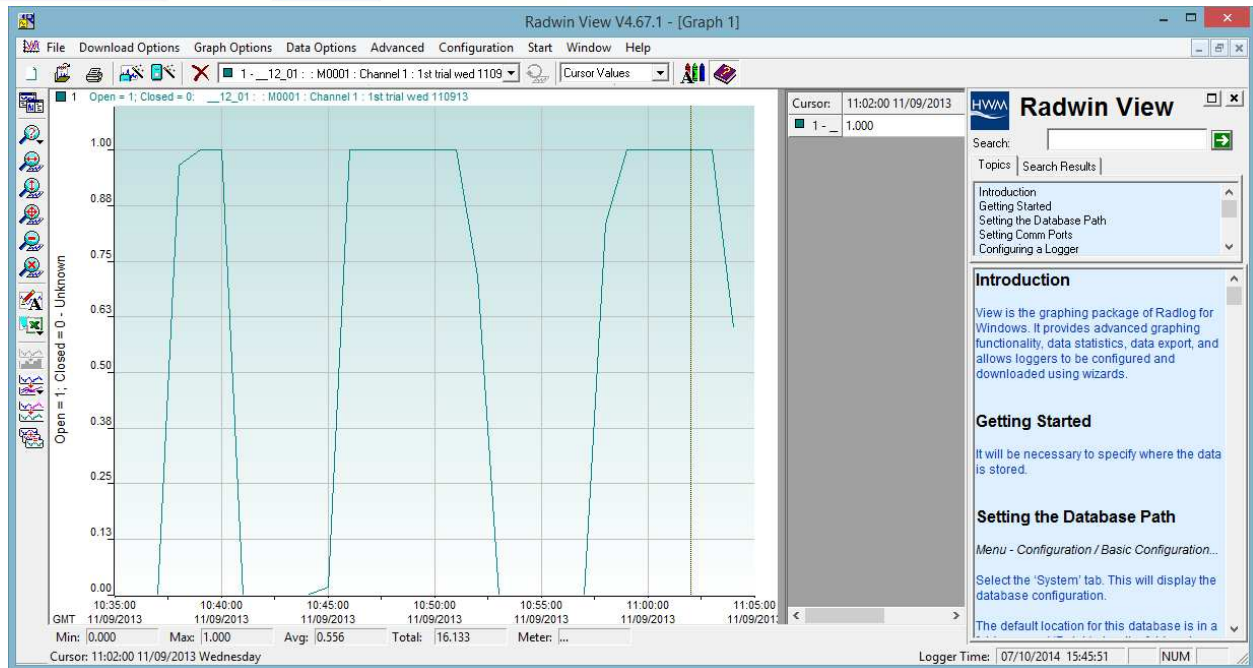
Ref: FAQ0063

Version: 1.0

Title – Status channel configuration

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(Issue 1)



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	