Calibrating an external pressure transducer to a logger
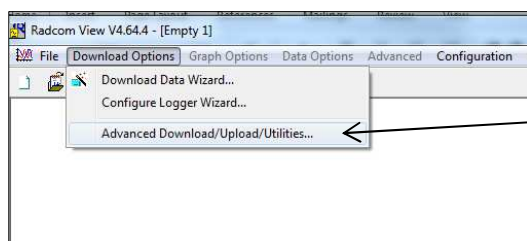
Each External pressure transducer carries calibration values on its cable that you need to program into the data logger. This effectively 'pairs' the transducer to the logger to provide accurate sensor data. Failure to do this next step will result in erroneous data being recorded.

1. From the Radcom View menu bar,

select Download Options and then <<Advanced Upload/Download Utilities…>>

2. Now click the **Utilities** tab
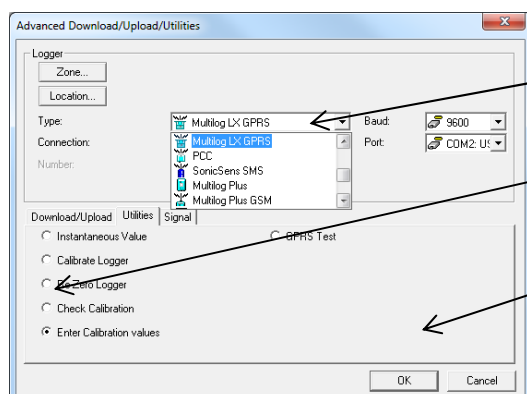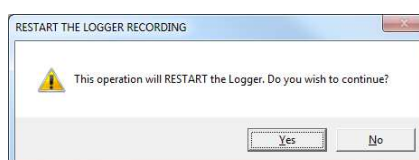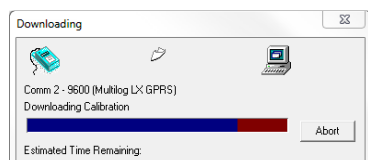

Select your logger **Type** from the dropdown menu (Multilog LX GPRS)

Next click the <<Enter Calibration values>> button

Finally click <<OK>> to start the calibration process.

3. Radwin will now download the current logger information

You will see a warning that this operation will restart the logger. This is normal and is simply a warning that there will be a data collection restart performed as part of the process. Simply click <<Yes>> to acknowledge the warning.

4. Next you will need to enter the details **for your** cable, the picture indicates the figures **from the cable** to enter – Do not enter the illustrated values!
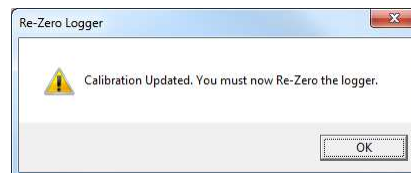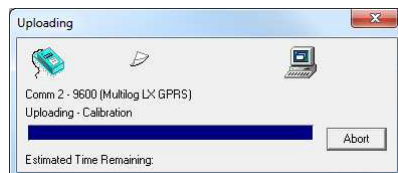
Enter the 3 numbers **from the cable** in the 3 boxes

Ensure you tick the box on the left to confirm that the numbers you enter are to be loaded.

Then click <<OK>>

5. The Calibration settings you entered will now be programmed into the logger…

6. You will receive a warning that you now need to Re-Zero the logger. As part of the pairing process you also need to set the atmospheric zero point, so click <<OK>> to confirm the message.
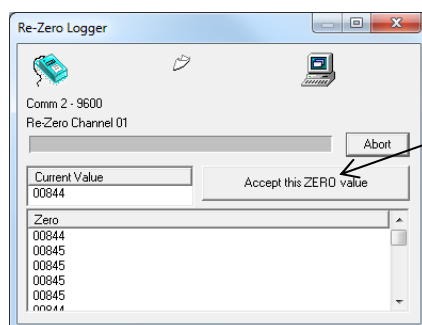
7. Then choose the <<Re-Zero Logger>> button from the Utilities menu
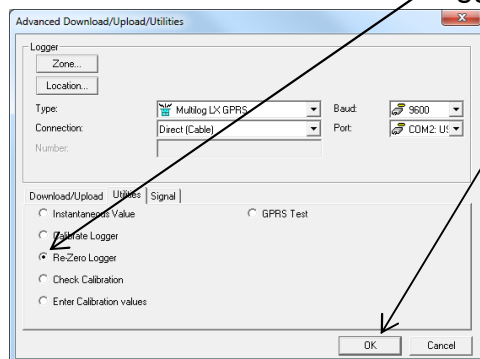
and click <<OK>>

You will receive another restart warning, click <<Yes>> to accept.

Radwin will then start the zeroing process by measuring the current pressure value – note this is a raw data value, not a real pressure reading.

Let the values being read settle for a little while (about 15secs), then click the <<Accept this ZERO value>> button.

Remember you MUST have the transducer disconnected from the water supply during this step otherwise you will record negative pressures.
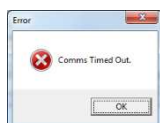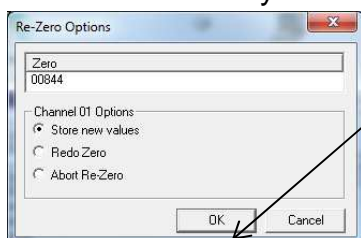
Note : If you wait too long, Radwin will timeout.

Simply click <<OK>> and go back to step 7

8. You are now ready to set the zero point into the logger, so click

<<OK>> to continue, or if you are unhappy select Redo or Abort and click <<OK>>

When propted 'Store the new Zero value' click <<OK>>

9. Radwin will now store the measured zero value into the logger as the zero reference point for the site.

10. You can now connect the sensor to the water fitting

Male pushes into the female, you may need to push this outer ring up to get both parts to fit together correctly

Document History:

Edition	Date of Issue	Modification	Notes
1st	15/10/14	Release	