



Ref: FAQ0129

Version: 1.0

Title – Hydrins – negative data issue

Made By: AB 15/09/15

(Issue 2)

Hydrins - How to troubleshoot erroneous negative data

Negative data on the graph can be caused by 'logger overflow' where the pulse rate into the logger is higher than the logger can accommodate. At this point it causes the logger to reverse into a negative flow situation.

For an LX logger the maximum frequency at a 15 minute sample rate is 36 Hz which equates to around 1080 Litres per second at 30Litres per pulse. ($36 \times 30 = 1080$)

The pulse output figure can easily be changed on the Hydrins using the Pulse factor box in the Hydrins software – you can type in your required figure.

Consider what the peak flow value is likely to be in the pipe in litres per second - then work out the scale factor to not have more than the max pulses/second of the logger.

In the example below for a 1000mm pipe the Maximum flow in the pipe is likely to be 5137 m³/hr this equals 1427 litres/sec

Max input for an LX is 36Hz,

$1427/36 = 39.6$ so 40 litre/pulse (rounded up to a whole number and to allow a bit extra headroom) is the maximum the logger can accommodate.



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In reality you should probably set the Hydrins at 45litres per pulse, as the logger is going to average it out over 15mins anyway - see below .

You will also need to set to set the logger flow channel at 45 litres per pulse

Document History:

Edition	Date of Issue	Modification	Notes
1st	06/08/12	Release	
2nd	15/09/15	Format update	