Ref: FAQ0335	Version: 1.0
Title – LoLog compressed data banding	
Made By: AB 15/09/15	(Issue 2)

LoLog Compressed Data logger

LoLog compressed data loggers use three methods of data compression. One method is called run length encoding which stores consecutive data of the same value as a single value and a count.

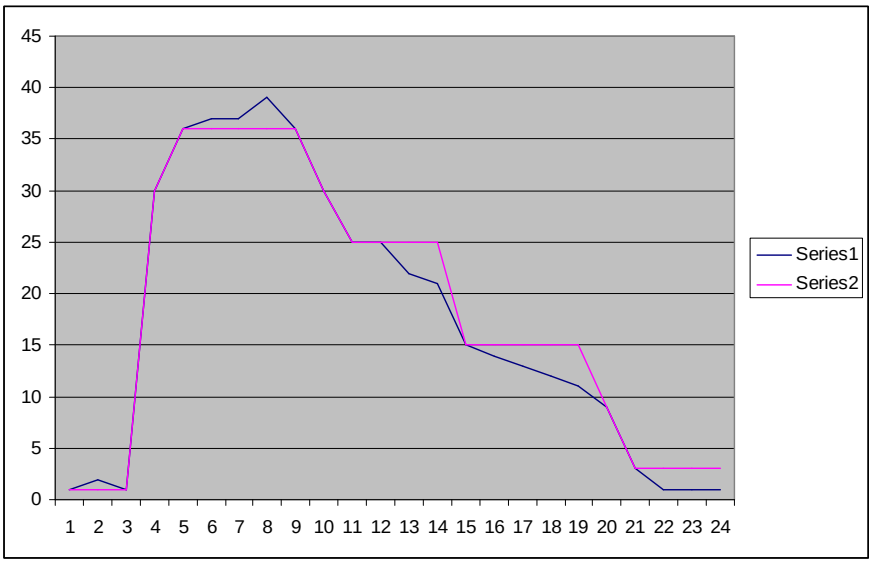
e.g. *wwwwwww* would be stored *w*7.

To improve data compression using this method the band parameter is used. The band parameter tells the logger the minimum amount the data has to change by to store a new value in dm. If the difference between the new value and old value is less than the band value the old value will be stored. The data band is only used on pressure loggers where volume doesn't matter.
The band value affects the resolution of the data stored. For maximum resolution (0.1m) use band = 0 (default). For a resolution of 0.5m use band = 5. For resolution of 1m use band = 10.

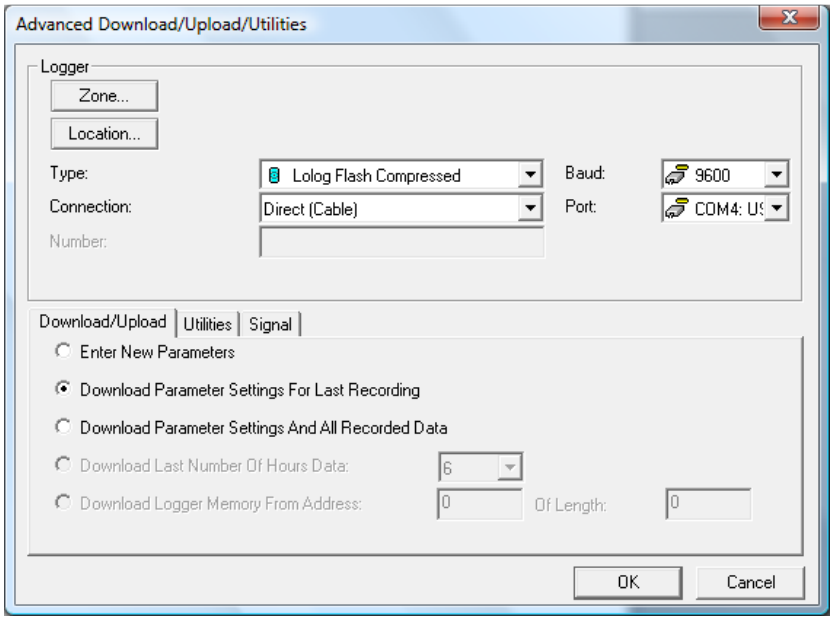
The higher the band the better the data compression.
The lower the band the better the data resolution.

Example graph below:

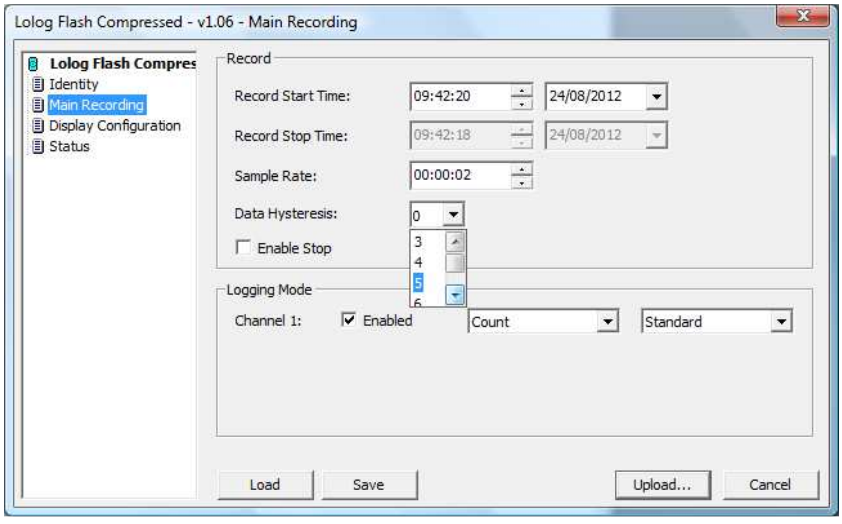
Series 1 band = 0
Series 2 band = 5



<u>To set the bands on a Lolog Compressed data logger –</u>
Use the Radcom Software Advanced Download / Upload / Utilities feature and at the Main Recording screen (see below)



Select 'Data Hysteresis'



Then select the 'Band' required from the drop down
The band value affects the resolution of the data stored. For maximum resolution (0.1m) use band =0 (default). For a resolution of 0.5m use band = 5. For resolution of 1m use band = 10.

Document History:

Edition	Date of Issue	Modification	Notes
1st	17/09/12	Release	
2nd	15/09/15	Format update	