

**FAQ0387****Version: 1.0****Title – Digital Sensor with large values****Made By: AB 24/01/17****(Issue 1)**

## How to handle digital sensors which output large values

A recent issue with the Aquatroll conductivity sensor has revealed a limitation in the current logger to DataGate biggest value transfer.

Currently the largest value that the logger can send is 32767. (16 bit logging)

With a digital (Modbus/SDI) sensor, you can use the scale factor to adjust the range of operation:

i.e.

Scale     Result

10 =    -327670 to 327670 (Units digit will always be 0)

1 =     -32767    to 32767

0.1 =   -3276.7   to 3276.7

0.01 = -327.67    to 327.67

NOTE: The hardware test in the logger will always show the full number, there is no value limit for the value displayed, therefore it is currently possible to see a value that you cannot actually process for a sensor that returns very large numbers.

Please pass this on to anyone that is using/selling a digital sensor that produces very large values, such as the Aquatroll.

### Document History:

Edition	Date of Issue	Modification	Notes
1st	24/01/17	Release	