Ref: FAQ0371	Version: 1.0
Title – Casella Rain Gauge	
Made By: TB (Issue 1)	

How to configure Casella Rain Gauge

This FAQ sheet details the configuration and setup procedure for a Casella Rain Gauge, and outlines the hardware testing, the hardware configuration, and the firmware configuration. The following components are needed:

- Casella rain gauge
- Casella rain gauge bucket
- cable adapter
- HWM Intelligens
- CABA9420 cable
- CABA9420 test cable for Intelligens (GasLog)
- IDT (version 2.03.32 and above)

There is a three stage setup required for the system to operate:

1. Testing the hardware.
2. Setup the hardware.
3. Setup the IDT.

Testing the Hardware

1. Plug the CABA9420 test cable into the Intelligens and a computer.

2. Connect a pair of banana plugs to the platform.

3. Connect the black plug on the platform to the green plug on the test cable, and the red plug to the blue plug labelled with number 1.

4. Connect the test cable to an Intelligens, and connect the Intelligens to the computer.

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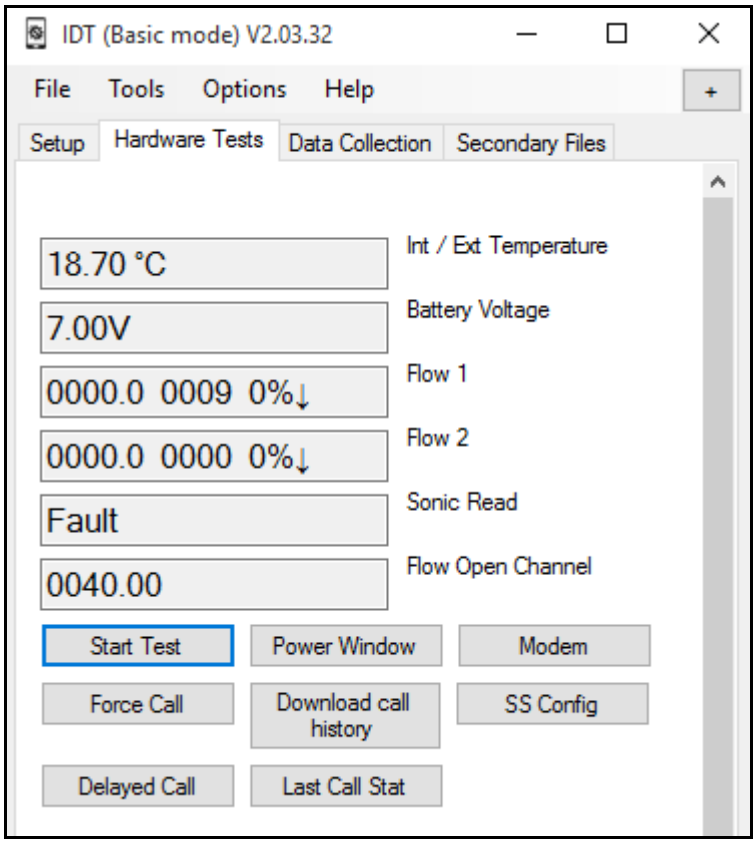
5. Open the IDT, and click “Read Device”.
6. Go to “Hardware Tests”, and press “Start Test”.
7.



8. On the platform, change the position of the gauge repeatedly. The numbers in the third box should change on the IDT.

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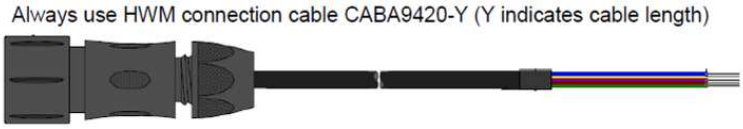
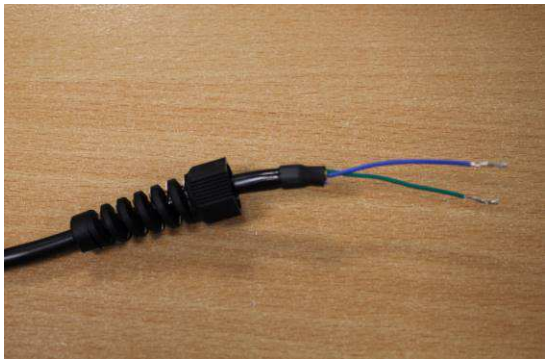
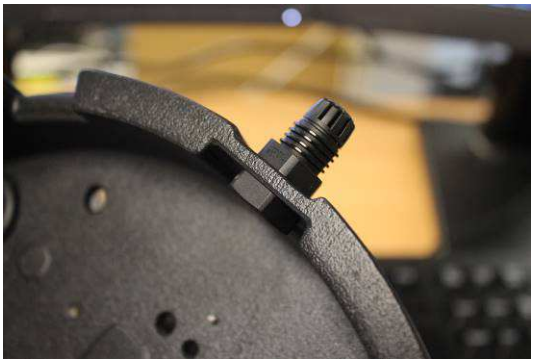
Setting up the Hardware

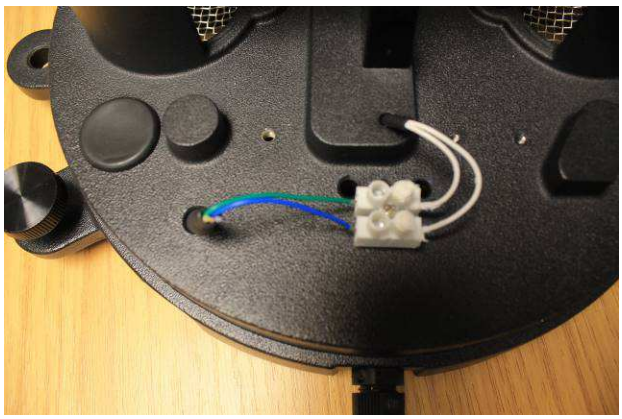
1. Assemble the cable adapter as shown below. The CABA9420 cable should pass through without problems. The cable should pass from the ‘spring’ end towards the hexagonal nut end.







2. Connect the blue and green wires only. Excess wires can be cut off.



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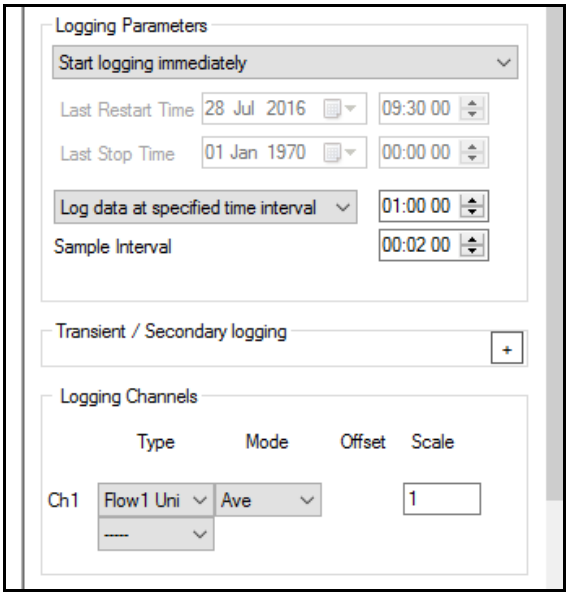
3. Screw the ‘spring’ into the adapter until it is tight. This will keep the cable from slipping.

4. The final setup should look like below.

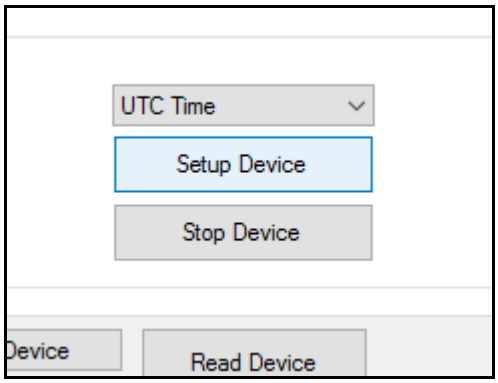
Configuring the Firmware

1. Start the IDT, and click “Read Device”.

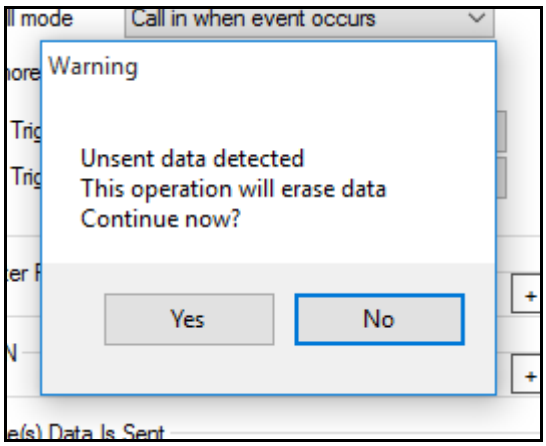
2. If different, change the Logging Parameters and Logging Channels to match those shown below.



3. Click Setup Device.



4. If any unsent data are detected, a message box will pop up and prompt the user. Any unsent data recorded may be discarded or downloaded. **Warning**: configuring the device will permanently erase any recorded data.



5. If “Call Out” settings are disabled, the user will be prompted with a message box. This can be configured later.

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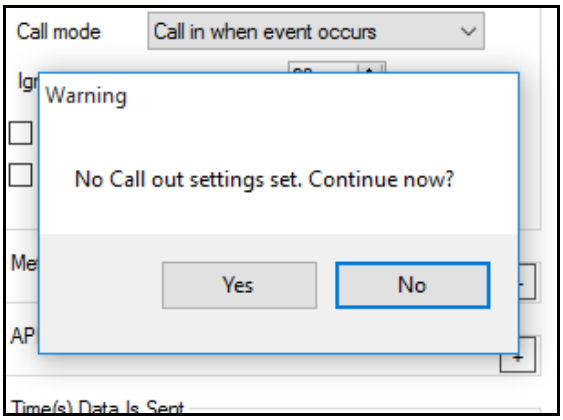
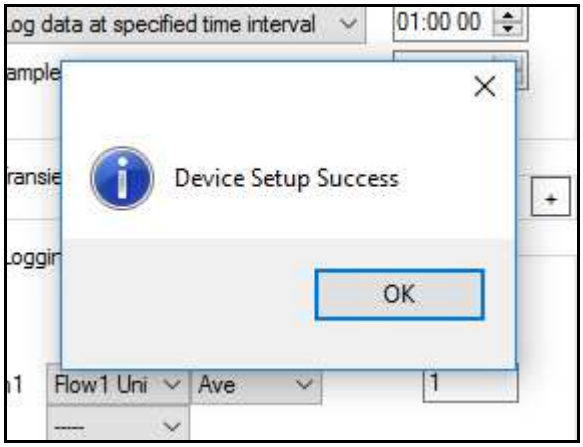


6. The loading bar will load a few times, before the confirmation message box appears.



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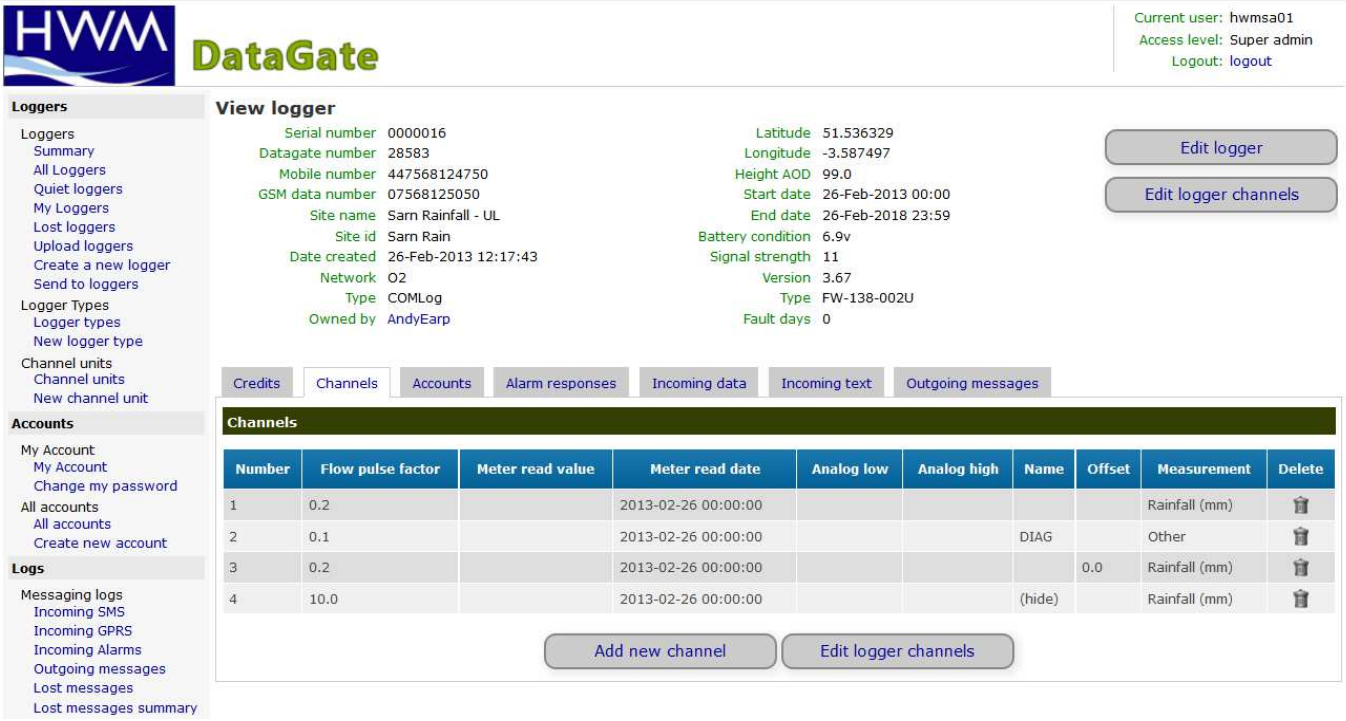
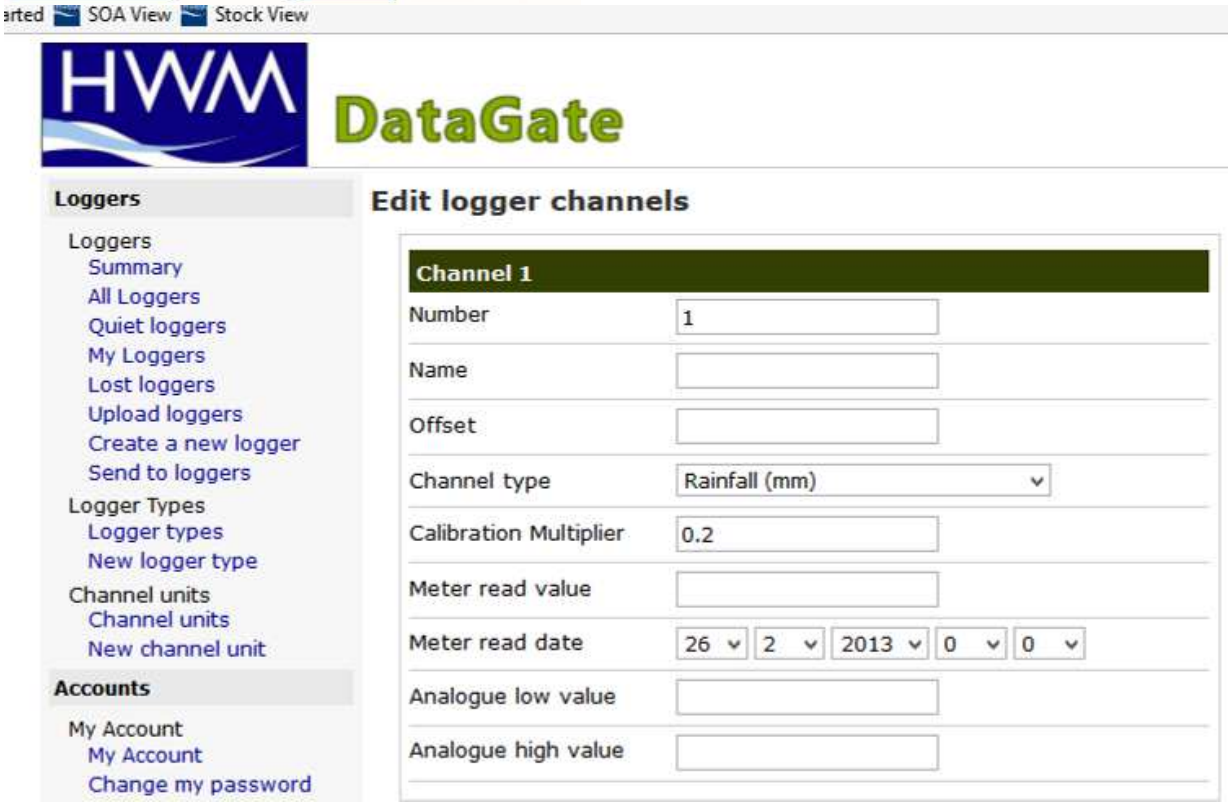
Setting up the channel in Datagate

1. Open your Datagate account and find the Rainfall logger and select the Channels Tab -



2. If no channels are showing select the Add New Channel button –



3. Select Channel Type as Rainfall in the appropriate units.
   Apply calibration multiplier – this is the rainfall per tip of the bucket – in the above example it is 0.2mm of rainfall per tip of the bucket .

4. Select 'Update logger channels' to save this so the data coming into Datagate will be correctly scaled.

Viewing on HWM Online

Open your HWM Online account and you should see the graphical representation of the data from the Rainfall logger as follows –

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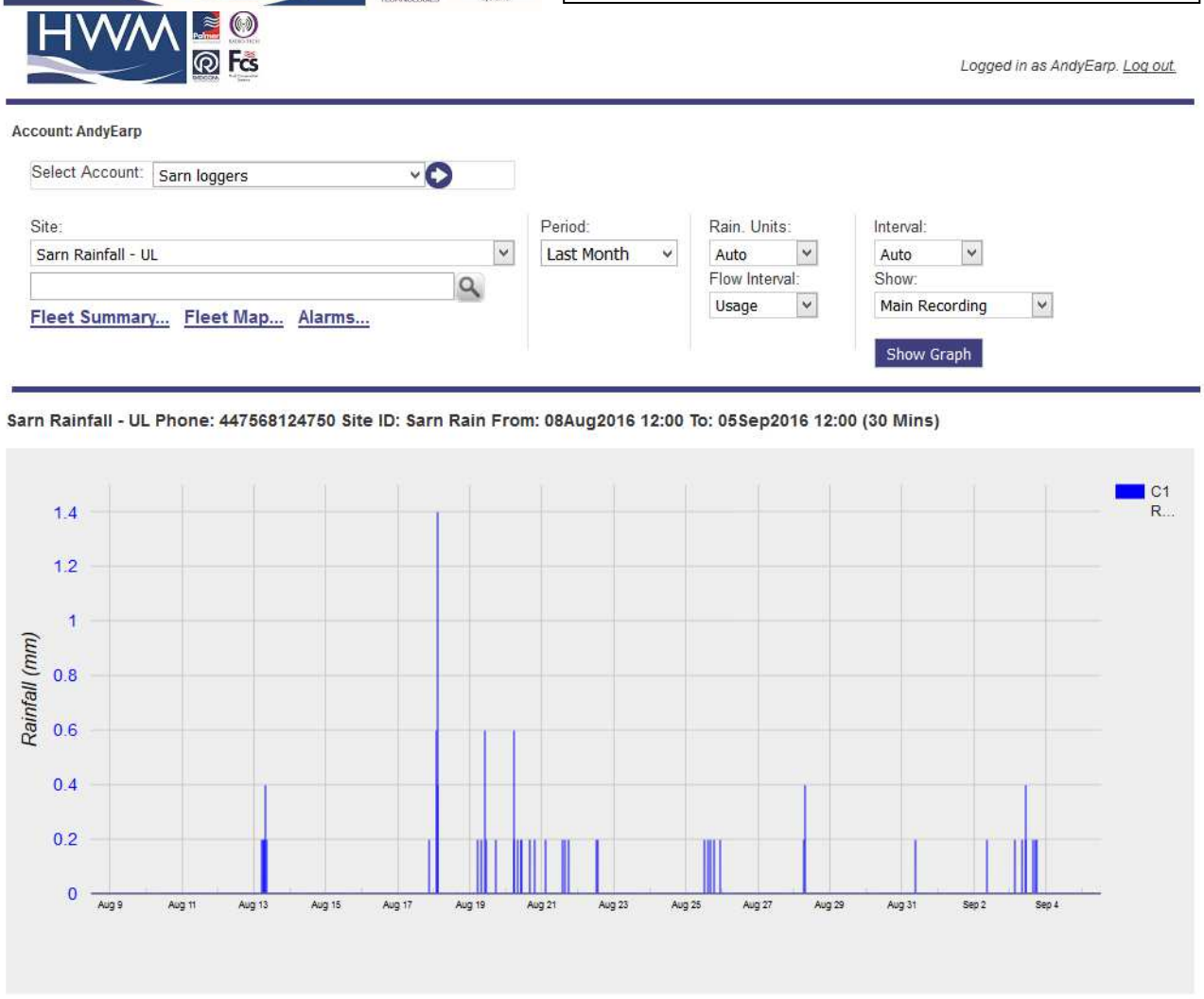

Document History:

Edition	Date of Issue	Modification	Notes
1st	28/07/16	Release	

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