



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.



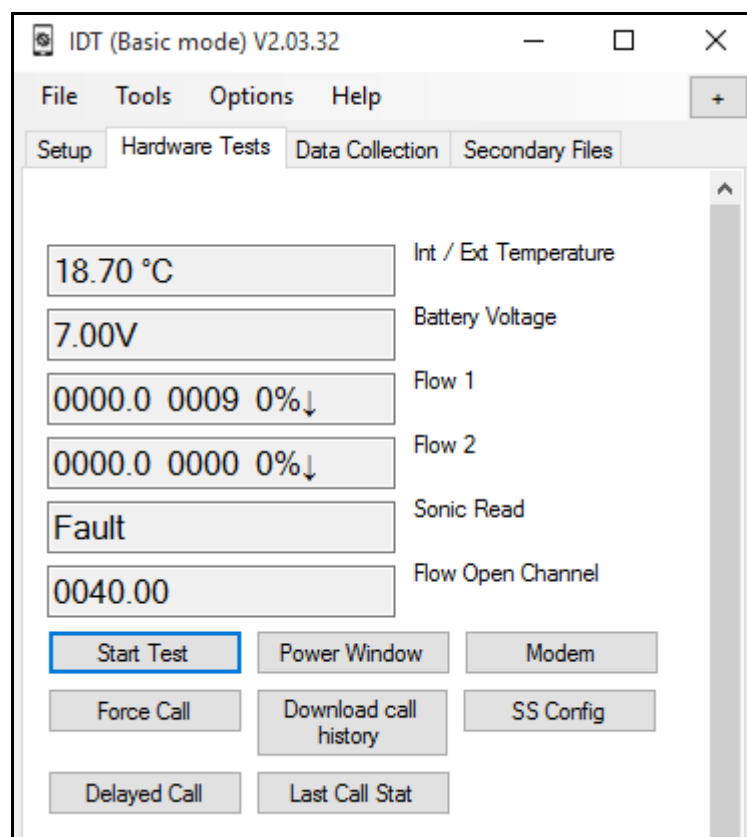
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5. Open the IDT, and click “Read Device”.
6. Go to “Hardware Tests”, and press “Start Test”.
- 7.



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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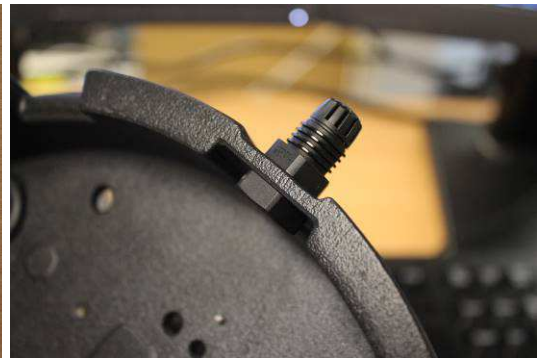
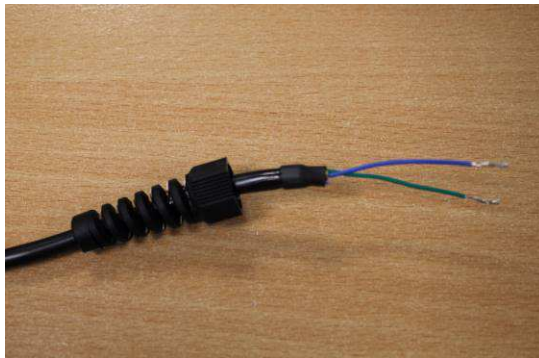
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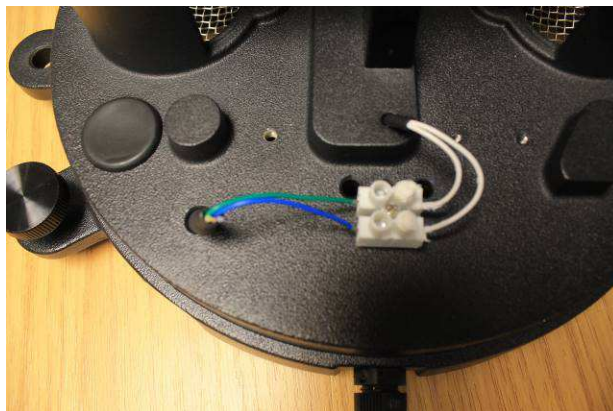
Setting up the Hardware

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.

Always use HWM connection cable CABA9420-Y (Y indicates cable length)



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





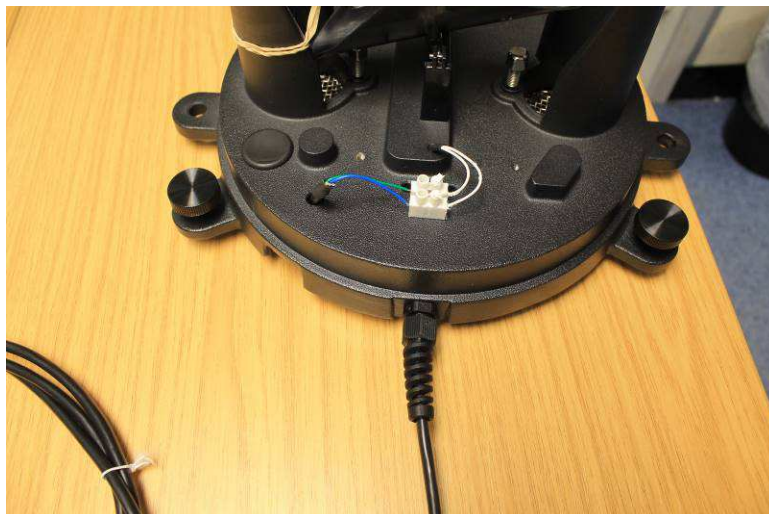
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3. Screw the 'spring' into the adapter until it is tight. This will keep the cable from slipping.
4. The final setup should look like below.



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.

Logging Parameters			
Start logging immediately			
Last Restart Time	28 Jul 2016		09:30 00
Last Stop Time	01 Jan 1970		00:00 00
Log data at specified time interval			01:00 00
Sample Interval			00:02 00
Transient / Secondary logging			
+			
Logging Channels			
Type	Mode	Offset	Scale
Ch1	Flow1 Uni	Ave	1



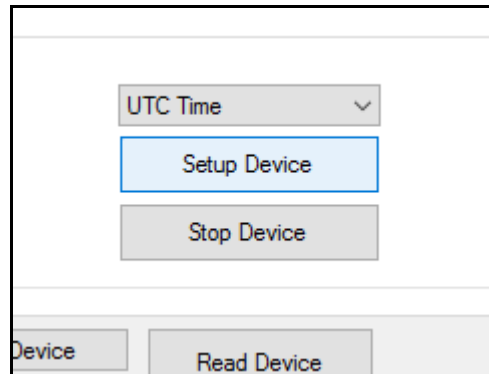
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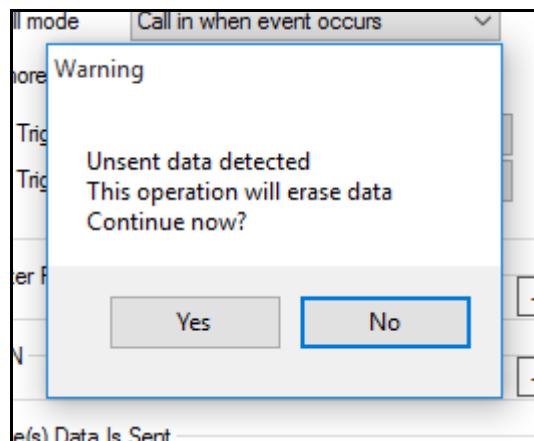
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3. Click Setup Device.



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.

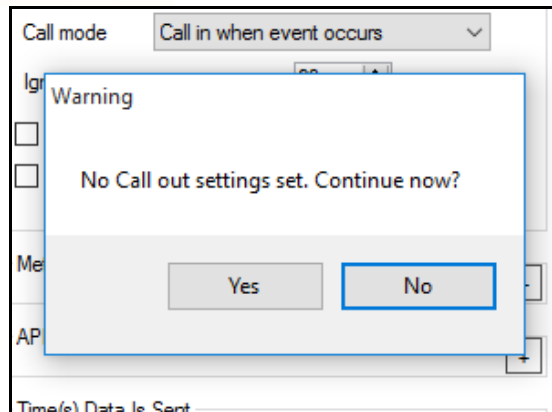


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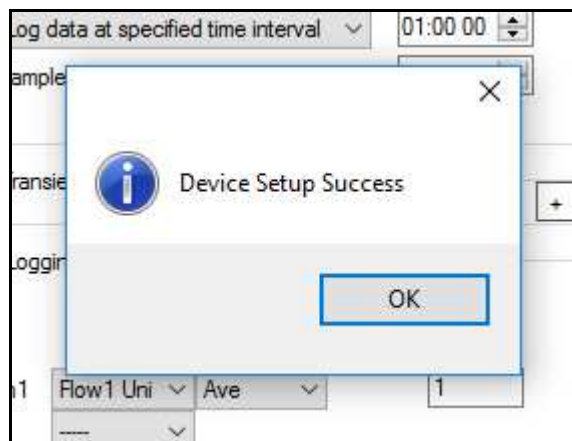
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6. The loading bar will load a few times, before the confirmation message box appears.



Setting up the channel in Datagate

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



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DataGate

Current user: hwmsa01
Access level: Super admin
Logout: [logout](#)

Loggers

Loggers
Summary
All Loggers
Quiet loggers
My Loggers
Lost loggers
Upload loggers
Create a new logger
Send to loggers
Logger Types
Logger types
New logger type
Channel units
Channel units
New channel unit

Accounts

My Account
My Account
Change my password
All accounts
All accounts
Create new account

Logs

Messaging logs
Incoming SMS
Incoming GPRS
Incoming Alarms
Outgoing messages
Lost messages
Lost messages summary

View logger

Serial number 0000016
Datagate number 28583
Mobile number 447568124750
GSM data number 07568125050
Site name Sam Rainfall - UL
Site id Sam Rain
Date created 26-Feb-2013 12:17:43
Network O2
Type COMLog
Owned by AndyEarp
Latitude 51.536329
Longitude -3.587497
Height AOD 99.0
Start date 26-Feb-2013 00:00
End date 26-Feb-2018 23:59
Battery condition 6.9v
Signal strength 11
Version 3.67
Type FW-138-002U
Fault days 0

[Edit logger](#)

[Edit logger channels](#)

[Credits](#) [Channels](#) [Accounts](#) [Alarm responses](#) [Incoming data](#) [Incoming text](#) [Outgoing messages](#)

Channels

Number	Flow pulse factor	Meter read value	Meter read date	Analog low	Analog high	Name	Offset	Measurement	Delete
1	0.2		2013-02-26 00:00:00					Rainfall (mm)	
2	0.1		2013-02-26 00:00:00			DIAG		Other	
3	0.2		2013-02-26 00:00:00				0.0	Rainfall (mm)	
4	10.0		2013-02-26 00:00:00			(hide)		Rainfall (mm)	

[Add new channel](#)

[Edit logger channels](#)

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






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[HWM](#)
[SOA View](#)
[Stock View](#)



DataGate

Loggers

- Loggers
 - Summary
 - All Loggers
 - Quiet loggers
 - My Loggers
 - Lost loggers
 - Upload loggers
 - Create a new logger
 - Send to loggers
- Logger Types
 - Logger types
 - New logger type
- Channel units
 - Channel units
 - New channel unit

Accounts

- My Account
 - My Account
 - Change my password

Edit logger channels

Channel 1	
Number	<input type="text" value="1"/>
Name	<input type="text"/>
Offset	<input type="text"/>
Channel type	<input type="text" value="Rainfall (mm)"/>
Calibration Multiplier	<input type="text" value="0.2"/>
Meter read value	<input type="text"/>
Meter read date	<input type="text" value="26"/> <input type="text" value="2"/> <input type="text" value="2013"/> <input type="text" value="0"/> <input type="text" value="0"/>
Analogue low value	<input type="text"/>
Analogue high value	<input type="text"/>

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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Logged in as AndyEarp. [Log out](#)

Account: AndyEarp

Select Account: Sarn loggers

Site:

Sarn Rainfall - UL

Period:

Last Month

Rain. Units:

Auto

Interval:

Auto

Flow Interval:

Usage

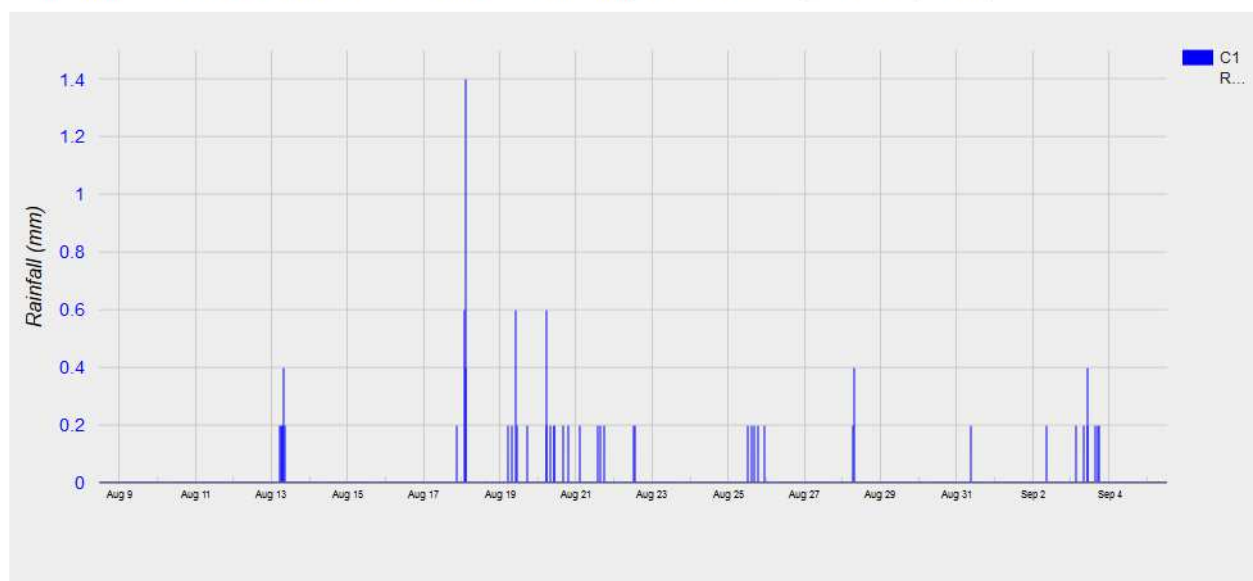
Show:

Main Recording

[Fleet Summary...](#) [Fleet Map...](#) [Alarms...](#)

Show Graph

Sarn Rainfall - UL Phone: 447568124750 Site ID: Sarn Rain From: 08Aug2016 12:00 To: 05Sep2016 12:00 (30 Mins)



Data Statistics

Document History:

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