

Made By: AB 21/09/15

Version: 1.0

(Issue 2)

Title-Radcom loggers secondary channel

Moder Studies Systems

How to configure Secondary recording channels and download the data

1. How to configure secondary recording channels

 \bigcirc

For a Multilog or Multilog LX data logger use Radwin View for the configuration Go to Download options > Advanced Download/Upload/Utilities –



From the drop down select the correct logger type and 'Download parameter Settings for last recording' then 'OK'

Zone	Advanced Downlo	oad/Upload/Uti	lities	×
Type: Connection: Number:	Multilog LX GPR	S ^	Baud: Port:	\$\$ 9600 ▼ \$\$ COM11: L▼
C Download Parama C Download Last Nu	ter Settings For Last Recordin ter Settings And All Recorded mber Of Days Data:	I Data		0
C Download Logger	Memory From Address:		f Length:	0 Cancel



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The logger will now download -



And will give this screen -

	М	ultilog LX GPRS - v3.13	>
Multilog LX GPRS - v I Identity Channel Configuration Main Recording Pseudo Recording Secondary Recording Data Display Configurat	Identity: Zone: Location: Time Logger Time:	00 _0F 11:54:26 26/04/2013 Error: -55 Minutes	
 GPRS Configuration Status 	GSM Clock: Comments: Name:	11:54:36	
	Site Info:	Halma Water Management Ty Coch House Llantarnam Park Way CWMBRAN UK NP44 3AW	< >
	Load	Save Upload	Cancel

The Identity tab gives the logger ID information

The Channel configuration tab gives the channels that the logger ids equipped with. The Main recording tab gives the configuration of the loggers primary channels as below –

🖞 Multilog LX GPRS - v	Record				
 Identity Channel Configuration 	Record Start	Time: 11:3	0:00 - 26	/02/2012 🔻	
Main Recording Pseudo Recording	Record Stop	Time: 11:2	3:43 19	/01/2012 🔻	
 Secondary Recording Data Display Configurat 	Sample Rate:	00	: 15 : 00		
GPRS Configuration Status	🔲 Enable St	ор С В	ock Memory 🛛 🕫	Cyclic Memory	
	Logging Mode				
	Channel 1:	Enabled	Count	Standard	-
	Channel 2;	🗖 Enabled	Count	✓ Standard	-
	Channel 3;	🗖 Enabled	Count	▼ Standard	Ψ.
	Channel 4:	🗖 Enabled	Count	▼ Standard	v
	SMS Message Ty	pe:	Variable sample	e rate	-

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To operate a secondary channel you first go to the pseudo recording tab -

tilog LX GPRS - v	Logging Mode -				
ntity			Value:	Discard:	Average:
nel Configuration Recording	Channel 1:	✓ Enabled	Maximum: 💌	0 🗖	1 •
cording	Channel 2;	🗖 Enabled	Minimum: 💌	0 -	1 -
ecording Configurat	Channel 3;	🔲 Enabled	Minimum:	0 -	1 -
ation	Channel 4;	🗖 Enabled	Minimum: 🔻	0 -	1 -
	Load	Save		Upload	Cance

The pseudo channel can be configured to store the minimum or maximum readings of the secondary recording channel at the same sampling rate as the main recording. For example:

Main recording sampling rate = 15 minutes

Secondary Recording Sample rate = 1 Second

The Secondary Recording Sample rate will take 900 readings during the 15-minute sampling period of the main recording. These 900 readings are sorted by highest and lowest values. The highest, lowest or average value of any of the 900 readings is then stored in the pseudo channel. In the case of pressure input it is possible to detect the presence of pressure surges by storing the maximum readings and for digital flow inputs it is possible to give an accurate measurement of Minimum Night Flow by storing the minimum flow rates.

Next, go to the Secondary recording tab and configure the settings for what you require the Secondary channel to record -

 Channel Configuration Main Recording Pseudo Recording 	Record Start			01/01/2000 19/01/2012	• •	
 Secondary Recording Data Display Configurat 	Sample Rate:	00	: 00 : 05		_	
 GPRS Configuration Status 		C e	Block Memory 6	Cyclic Men	nory	
	Logging Mode					
	Channel 1:	Enabled	Count	•	Standard	-
	Channel 2;	🔲 Enabled	Count	~	Standard	-
	Channel 3;	🗖 Enabled	Count	-	Standard	-
	Channel 4;	🔲 Enabled	Count	Ŧ	Standard	v

If your configuration is now complete select the 'Upload' button



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Then select 'Advanced' -

	Upload Parame	ters	
ogger00 Zone00 Location0F Type: Connection: GSM Data Number: SIM Voice Number:	Multilog LX GPRS Direct (Cable)	▼ Baud: ▼ Port:	ශි 9600 ▼ ශි COM11: U ▼
Dptions Main Recording and F Update Logger Time Stop Main Recording	lestart		
Update Logger Time as:	PC Time	Y	Advanced
		0	K Cancel

Tick the boxes as required and then 'OK' to upload the configuration to the logger

Zone,00		
Location,0F		
Type:	👑 Multilog LX GPRS 🚽 Baud:	9600
Connection:	Direct (Cable) Port:	COM11: U
GSM Data Number:		
SIM Voice Number:	+447702504949	
Main Recording Para	ms and Restart g Params and Restart	^
General Parameters	on And Stop Recording	~

This completes the configuration for the Secondary channels on the logger



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2. How to download secondary channel data

With a telemetry logger you can only get pseudo data sent in by GPRs or SMS (you cannot get the Secondary channel data sent in) and the pseudo data will appear on the graph as Channel 5 and 6 if your primary channels are 1 and 2.



So the graph below shows the pseudo output 5&6 - from a Pressure Ch1 and a flow channel 2. The Pseudo data is summarised Maximum or Minimum Secondary data depending on how you configured the Pseudo channels.

	Multilog SM	IS/GPRS - v3.3	0 - Pseudo Reco	ording	×
Multilog SMS/GPRS	- Logging Mode -		Value:	Discard:	Average:
Channel Configuration Main Recording Pseudo Recording	Channel 1:	Enabled	Minimum: 💌	0 🗸	
 Secondary Recording Data Display Configurat 	Channel 2: Channel 3;	Enabled	Maximum: 💌		
GPRS Configuration Power Windows Status	Channel 4:	🗖 Enabled	Minimum: 💌	0 -	1 7
	Load	Save		Upload.	Cancel

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The data relating to the Graph (i.e the Pseudo Channels) can be viewed using Radwin software by going to 'Data options' and selecting one of the data exports, or by opening the data table or by using the Data type menu and selecting one of the available views.

Data	a Options	Advanced	Configuration	Start	Window	Help				
M	Data Typ	Data Type 🕨								
<u>100</u>	Units/Lin	Units/Limits								
	Transducers									
	Times	Times								
	Y-Axis Scaling									
	Logger Parameters									
Υ.	Data Flags 🔸									
	Export Ta	ibular Data								
	Export Data Table (Cursor Values)									
	Open Da	Open Data Table (Cursor Values) as CSV File (MS Excel)								
	Open Da	ta Table (Cur	sor Values) as TX	T File						



However if you want to see the Secondary data then you can do this by manually downloading the logger using Manual Call > Options > Advanced Download/Upload/Utilities > Download Parameter settings and all recorded data -

8	Manual Call Wizard V4.64.4 – 🗖 🛛 🗠
File Options Configuration Sta	art Help
🐼 💽 👰	Advanced Download/Upload/Utilities
	Logger Zone Location Type: Type: Image: Connection: Direct (Cable) Port Port Port Inted omm Ports ng a Logger ng a Logger Image: Port
	Download/Upload Utilities Signal C Enter New Parameters Call is the logger configuration and download Parameter Settings For Last Recording C Download Parameter Settings And All Recorded Data Call is the logger configuration and download package for Radlog For s. It allows loggers to be configured e upload wizard, and a utilities for displaying C Download Logger Memory From Address: 0 OK Cancel anual32 should be used for ing advanced logger features not ad by the upoad wizard. All features
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When you select OK you will be given a choice of which Channel type you want to download -

Select Recording ×
Select
Main Recording
C Secondary Recording
OK Cancel

You will be able to tell the difference because the secondary channel will be at the fast sample rate.

If necessary you can then superimpose the secondary data over the primary (Main) data graph by combining graphs in Radwin View.

You can also remotely download the Secondary recording by using Manual Call to remotely access the logger during a Power window and repeating the above process.

Document History:

Edition	Date of Issue	Modification	Notes
1st	13/06/13	Release	
2nd	21/09/15	Format update	