



Ref: FAQ0052

Version: 1.0

Title –Permanet LX Multi Channel Config

Made By: AB 18/06/14

(Issue 2)

Question – How do I configure a multi channel (pressure and / or flow) Permanet LX

Permanet LX is set up as per a normal Multilog LX – the specific requirements for this variant are as follows -

During logger configuration Channel 1 will be the Pressure Channel and should be configured (by default) as below – ensure it is enabled if this channel is required. (Note – if the logger has no Pressure channel then Channel 1 will not be present and the first will be Channel 2)

Configure Logger Wizard

Configuration Summary:

- Logger Type: Multilog LX GPRS
- Connection Type: Direct (Cable)
- Baud Rate: 9600
- Zone: EH2_
- Location: 4SD
- Connection Type: GPRS
- Baud Rate: 9600
- Telephone Number: +447713369404
- Channel 1

Configuration Option:

Channel 01 Configuration:

Enable the channel if required and set the logging mode for digital channels. Select the required transducer type

☒ Enabled

Transducer: Analogue (Pressure)

Calibration: 0.100000

Enter Calibration values Advanced...

<< Previous Next >> Cancel

Channel 2 will be the flow channel as below – the pulse factor and the meter reading may need to be configured – if so select 'Advanced' button –

(Note - if the logger does not have a Flow Channel then the next Channel in the configuration will be Channel 3)

Configure Logger Wizard

Configuration Summary:

- Logger Type: Multilog LX GPRS
- Connection Type: Direct (Cable)
- Baud Rate: 9600
- Zone: EH2_
- Location: 4SD
- Connection Type: GPRS
- Baud Rate: 9600
- Telephone Number: +447713369404
- Channel 1
- Channel 2

Configuration Option:

Channel 02 Configuration:

Enable the channel if required and set the logging mode for digital channels. Select the required transducer type

☒ Enabled

Count Standard

Transducer: Digital (Flow)

Meter Reading: 10.0000 Cubic Metres

Units Per Pulse: 1.000000

Advanced...

<< Previous Next >> Cancel



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Configure the values as required and select 'OK' and then select 'Next'

The 'Flow Transducer' window is used to configure a flow sensor. It includes a 'Sensor Type' dropdown set to 'Flow'. Below, the 'Transducer' section has a 'Select' dropdown set to '-- User Defined Transducer --' and a 'Remove' button. The 'Enter/Edit Transducer' section contains fields for 'Name', 'Units Per Pulse' (set to 1.000000), 'Offset' (set to 0.000000), and 'Data Type' (set to 'All Data Values'). There are buttons for 'Add to Select Transducer List', 'Bands...', 'Export...', 'OK', and 'Cancel'.

Channel 3 is the Noise channel and should be as below -

The 'Configure Logger Wizard' window shows the 'Channel 03 Configuration' step. The 'Configuration Summary' on the left lists settings for 'Multilog LX GPRS' with a 'Baud Rate' of 9600. The 'Configuration Option' on the right shows 'Channel 03 Configuration' with 'Enabled' checked. The 'Transducer' dropdown is set to 'Analogue (Pressure)' and the 'Calibration' field is set to 0.100000. Buttons for 'Enter Calibration values', 'Advanced...', '<< Previous', 'Next >>', and 'Cancel' are at the bottom.

If it is correct, ensure it is 'Enabled' and select 'Next'



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Channel 4 is the 'Spread' Channel and should be as below –

If it is correct, ensure it is 'Enabled' and select 'Next'

At the next screen configure the Sample rate to be '15 Minutes' as below -

Select 'Next'



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The logger start time needs to be set for 5.30am (as this defines the time the data will be downloaded from the Permalog to the LX each day)

The screenshot shows the 'Configure Logger Wizard' window, specifically the 'Recording' tab. The 'Configuration Summary' on the left lists: Logger Type: Multilog LX GPRS, Connection Type: Direct (Cable), Baud Rate: 9600, Zone: EH2, Location: 4SD, Connection Type: GPRS, Baud Rate: 9600, Telephone Number: +447713369404, Channel 1, Channel 2, Channel 3, Sample Rate: 24 Hours, Record Start Time: 05:30:00 23/10/2013, and Memory Mode: Cyclic Memory. The 'Configuration Option' on the right is titled 'Recording:' and includes instructions to enter recording start and stop times. The 'Record Start Time' is set to 05:30:00 on 23/10/2013, and the 'Record Stop Time' is set to 17:06:16 on 22/10/2013. There are checkboxes for 'Enable Stop' (unchecked), 'Cyclic Memory' (selected), and 'Block Memory' (unchecked). Navigation buttons at the bottom are '<< Previous', 'Next >>', and 'Cancel'.

Call in should be set at twice per day at 5.40am and 6.00am

The screenshot shows the 'Configure Logger Wizard' window, specifically the 'GPRS Call Times' tab. The 'Configuration Summary' on the left is identical to the previous screen, but the 'Memory Mode' is now 'GPRS UDP' and 'GPRS Call Times' is set to 'Call Times Table'. The 'Configuration Option' on the right is titled 'GPRS Call Times' and includes instructions to select the calling mode and configure call times/frequency. The 'Call Times' section shows a dropdown menu set to 'Call Times Table'. Below this is a table with columns 'Enable', 'Time', and 'UDP'. The table contains four rows: 01 (05:40:00, [1] lgrudp.h...), 02 (06:00:00, [1] lgrudp.h...), 03 (00:00:00, [1] lgrudp.h...), and 04 (00:00:00, [1] lgrudp.h...). Navigation buttons at the bottom are '<< Previous', 'Next >>', and 'Cancel'.

Enable	Time	UDP
01	05:40:00	[1] lgrudp.h...
02	06:00:00	[1] lgrudp.h...
03	00:00:00	[1] lgrudp.h...
04	00:00:00	[1] lgrudp.h...

All other settings as per normal Multilog LX and then 'Upload' the settings to the logger -



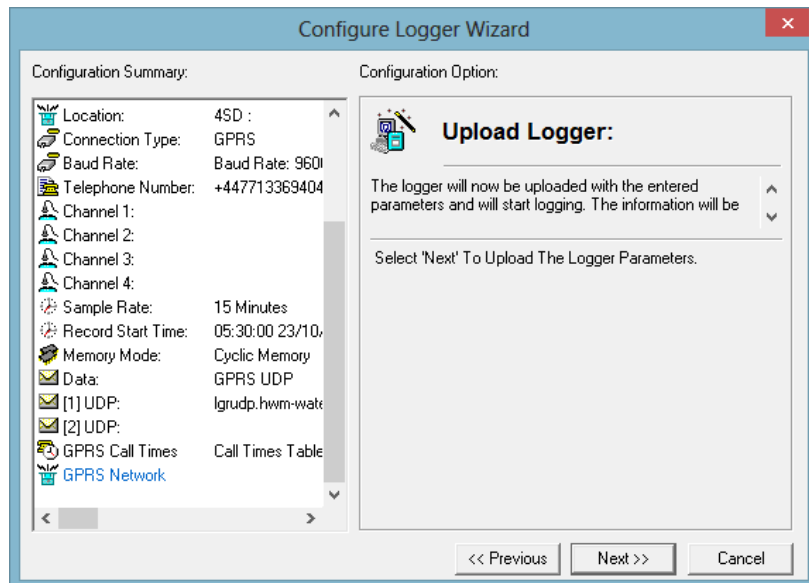
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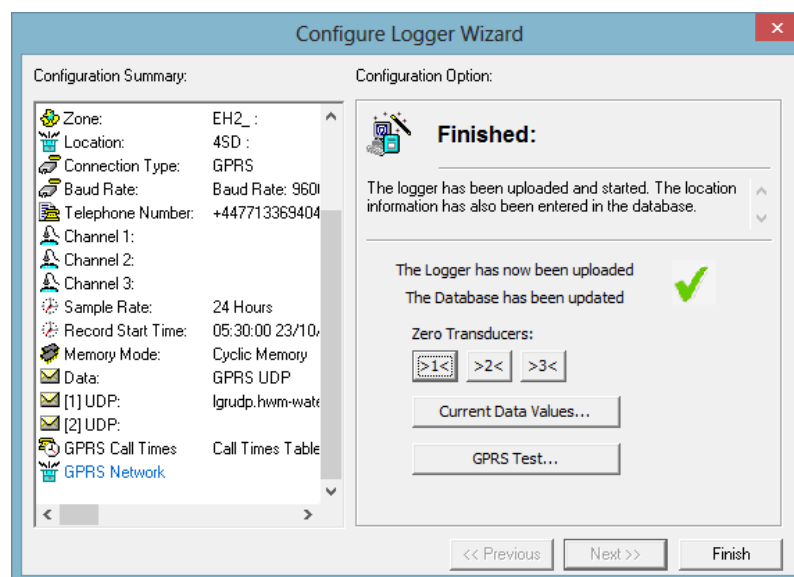
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Carry out a GPRS test to ensure you have communications to Datagate.



IMPORTANT

Now ensure the Permalog is 'woken up' from its transport mode by swiping the side of it using the magnetic base of the LX Antenna and ensuring there is a short sequence of Red and Green LED flashes visible in the window in the top of the yellow moulding -





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Datagate /HWM Online/Almos

You need to set Noise and Spread, channels on Datagate in order for Almos to correctly process the data from the logger.

Open the correct Datagate account and locate the logger and 'open' it –

Firefox - View logger - HWM DataGate
datagate.mobifi.com/dgweb/logger.html?id=29036

Current user: hwmsa01
Access level: Super admin
Logout: logout

View logger

Serial number: 25323197
Datagate number: 29036
Mobile number: 19047297540
GSM data number: 19047297540
Site name: Permanet HUB
Site id: 11th St Yard
Date created: 14-Mar-2013 02:35:38
Network: T-Mobile
Type: Wi5
Owned by: Miami Dade County1

Latitude: 25.78441
Longitude: -80.21185
Height AOD: 0.0v
Start date: 21-Mar-2013 00:00
End date: 14-Mar-2018 23:59
Battery condition: 0.0v
Signal strength: 0.0v
Version: 0.0v
Type: 0.0v

Edit logger
Edit logger channels

Credits Channels Accounts Alarm responses Incoming data Incoming text Outgoing messages

Incoming GPRS messages

Deduct credits: false (toggle)
Credits: 100000
Credits used: 0
Number received: 0
Waiting for credits: 0
Last message: 0
Alert after x days: 0

Add incoming GPRS credits
1000 Add GPRS credits

Incoming SMS messages

Deduct credits: false (toggle)
Credits: 1000
Credits used: 0
Number received: 0
Waiting for credits: 0
Last message: 0
Alert after x days: 0

Add incoming SMS credits
1000 Add SMS credits

Outgoing messages

Deduct credits: true (toggle)
Credits: 1000
Credits used: 0
Number sent: 0
Waiting for credits: 0
Last message sent: 0

Add outgoing credits
1000 Add credits

Select the 'Channels' tab –

Firefox - View logger - HWM DataGate
datagate.mobifi.com/dgweb/logger.html?id=29036/channels

Current user: hwmsa01
Access level: Super admin
Logout: logout

View logger

Serial number: 25323197
Datagate number: 29036
Mobile number: 19047297540
GSM data number: 19047297540
Site name: Permanet HUB
Site id: 11th St Yard
Date created: 14-Mar-2013 02:35:38
Network: T-Mobile
Type: Wi5
Owned by: Miami Dade County1

Latitude: 25.78441
Longitude: -80.21185
Height AOD: 0.0v
Start date: 21-Mar-2013 00:00
End date: 14-Mar-2018 23:59
Battery condition: 0.0v
Signal strength: 0.0v
Version: 0.0v
Type: 0.0v

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
Nothing found to display.									

Add new channel Edit logger channels

If no channels are showing then select the 'Add new channel' button



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Create the channels as follows –

Ch1 = Pressure Offset 0.0 Cal = 0.1
Ch2 = Flow Offset 0.0 Cal = (as per logger config of flow sensor)
Ch3 = Noise Offset 0.0 Cal = 1.0
Ch4 = Spread Offset 0.0 Cal = 1.0

NOTE - Do not create a channel for Leak / No leak

Select 'Update logger Channels' to complete.
Check the channels are correct as following screen.



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Firefox - View logger - HWM DataGate

datagate.mobifi.com/dgweb/logger.html?id=29036#channels

Most Visited Getting Started New channel unit

Owned by: Miami Dade County

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
- Extended API
- Other logs
- FTP log
- API log
- Logs
- Logins

Credits

- Global credits
- Credits
- Message statistics

Statistics

- Statistics
- Incoming messages

API

- API Tests
- API test
- Messaging test
- Message header test
- API controls
- API controls

Channels

Number	Flow pulse factor	Meter read value	Meter read date	Analog low	Analog high	Name	Offset	Measurement	Delete
1	0.1		2013-10-24 00:00:00			Pressure		Pressure	
2	10.0		2013-10-24 00:00:00			Flow		Flow	
3	1.0		2013-10-24 10:00:00			Noise		Noise	
4	1.0		2013-10-24 10:00:00			Spread		Spread	

[Add new channel](#) [Edit logger channels](#)

Document History:

Edition	Date of Issue	Modification	Notes
First	13/10/13	Release	
Second	18/06/14	FAQ new format	