

Ref: FAQ0052

Made By: AB 18/06/14

Version: 1.0

Title – Permanet LX Multi Channel Config

(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:		Configuration Option:
Logger Type: Connection Type: Baud Rate: Logger Type: Connection: Connection: Baud Rate: Baud Rate: Elephone Number: Channel 1:	Multilog LX GPRS Direct (Cable) Baud Rate: 9600 Multilog LX GPRS EH2_: 4SD: GPRS Baud Rate: 9600 +447713369404	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)

	Config	ure Logger Wizard
Configuration Summary:		Configuration Option:
Logger Type: Connection Type: Baud Rate: Logger Type: Source Connection: Connection: Connection: Connection Type: Baud Rate: Relephone Number: Channel 1: Channel 2:	Multilog LX GPRS Direct (Cable) Baud Rate: 9600 Multilog LX GPRS EH2_: 4SD: GPRS Baud Rate: 9600 +447713369404	Channel 02 Configuration: Enable the channel if required and set the logging mode for digital channels. Select the required transducer type For Enabled Count Standard Transducer Digital (Flow) Meter Reading: 10.0000 Units Per Pulse: 1.00000
<	>	, interaction
		<< Previous Next >> Cancel



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

Flow Transducer				
Select the u applied to the	nits Sensor type. This defines the type of units that can be e data. Select a stored transducer from the list, or select user	< >		
Sensor Type:	Flow			
Transducer				
Select:	User Defined Transducer 💌 💌 Remove			
Enter/Edit Transd	ucer			
Name:				
Units Per Pulse:	1.000000			
Offset:	0.000000			
Data Type:	All Data Values 💽			
Add to Select Transducer List Bands				
Export	0K Cance			

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

Configure Logger Wizard		
Configuration Summary:		Configuration Option:
Logger Type: Connection Type: Baud Rate: Connection Type: Connection Type: Connection Type: Connection Type: Baud Rate: Channel 1: Channel 1: Channel 2: Channel 3:	Multilog LX GPRS Direct (Cable) Baud Rate: 9600 Multilog LX GPRS EH2_: 4SD : GPRS Baud Rate: 9600 +447713369404	Channel 03 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
<	>	
<< Previous Next >> Cancel		

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 -

(Configure Logger Wizard ×
Configuration Summary:	Configuration Option:
Image: Connection Type: Multilog LX GI Image: Connection Type: Direct (Cable) Image: Baud Rate: Baud Rate: Image: Connection Type: Multilog LX GI Image: Connection Type: Baud Rate: Image: Connection Type: Multilog LX GI Image: Connection Type: GPRS Image: Connection Type: GPRS Image: Connection Type: GPRS Image: Connection Type: GPRS Image: Connection Type: Hard Rate: 91 Image: Connect 1: Channel 1: Image: Channel 2: Channel 3: Image: Channel 4: Multiling LX GI	PRS Channel 04 Configuration: 500 Enable the channel if required and set the logging mode for digital channels. Select the required transducer type PRS Enabled 500 Transducer Analogue (Pressure) Calibration: 0.100000 Enter Calibration values
	<< Previous Next >> Cancel

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 -

Configure Logger Wizard			×
Configuration Summary:		Configuration Option:	
 Logger Type: Connection Type: Baud Rate: Logger Type: Zone: Location: Connection Type: Baud Rate: Connection Type: Baud Rate: Telephone Number: Channel 1: Channel 2: Channel 3: Channel 4: Sample Rate: 	Multilog LX GPRS Direct (Cable) Baud Rate: 9600 Multilog LX GPRS EH2_: 4SD: GPRS Baud Rate: 9600 +447713369404	Sample Rate: Select the required data logging interval. 15 minutes is advisable for standard applications. Sample Rate: 15 Minutes	• • • • • • • • • • • • • • • • • • •
<	>		
		<< Previous Next >> Cano	el 🗌

Select 'Next'



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)

Configure Logger Wizard			
Configuration Summary:		Configuration Option:	
Logger Type: Connection Type: Baud Rate: Connection Type: Connection: Connection: Baud Rate: Baud Rate: Baud Rate: Channel 1: Channel 1: Channel 1: Channel 1: Channel 3: Sample Rate: Record Start Time: Memory Mode:	Multilog LX GPRS Direct (Cable) Baud Rate: 9600 Multilog LX GPRS EH2_: 4SD : GPRS Baud Rate: 9600 +447713369404 24 Hours 05:30:00 23/10/20° Cyclic Memory	Recording: Enter the recording start time. If a stop time is required, select enable stop and enter the stop time. Loggers are Record Start Time: 05:30:00 • 23/10/2013 • Record Stop Time: 17:06:16 • 22/10/2013 • Enable Stop © Block Memory <	

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

Configure Logger Wizard			×
Configuration Summary:		Configuration Option:	
 ☐ Logger Type: ⊘ Zone: ☐ Location: ∅ Connection Type: ∅ Baud Rate: ☑ Telephone Number: ▲ Channel 1: ▲ Channel 2: ▲ Channel 3: ◊ Sample Rate: ◊ Record Start Time: ◊ Memory Mode: △ Data: △ (2) UDP: △ GPRS Call Times 	Multilog LX GPR EH2_: 4SD: GPRS Baud Rate: 9601 +447713369404 24 Hours 05:30:00 23/10, Cyclic Memory GPRS UDP Igrudp.hwm-wate Call Times Table	GPRS Call Times Select the calling mode, and configure the call times/frequency. Call Times: Call Times Table Enable Time UDP Image: 01 05:40:00 Image: 02 06:00:00 Image: 04 00:072:00 Image: 04 00:072:00	< > <
		<< Previous Next >> Car	ncel

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



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Configure Logger Wizard			×
Configuration Summary:		Configuration Option:	
날 Location: ② Connection Type: ② Baud Rate: 과 Telephone Number:	4SD : ^ GPRS Baud Rate: 9600 +447713369404	Upload Logger:	
Channel 1:		parameters and will start logging. The information will be Select 'Next' To Upload The Logger Parameters.	*
 Channel 4: Sample Rate: Record Start Time: Memory Meder 	15 Minutes 05:30:00 23/10/ Cuelie Memory		
 ✓ Data: ✓ [1] UDP: ✓ [2] UDP: 	GPRS UDP Igrudp.hwm-wate		
GPRS Call Times GPRS Network	Call Times Table		
	,	<< Previous Next >> Canc	el

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

Configure Logger Wizard			x
Configuration Summary:		Configuration Option:	
	EH2_: ^ 4SD : GPRS Baud Rate: 9601 +447713369404 24 Hours 05:30:00 23/10, Cuclic Memory	Finished: The logger has been uploaded and started. The location information has also been entered in the database. The Logger has now been uploaded The Database has been updated Zero Transducers:	
✓ Memory Mode: Cyclic Memory ✓ Data: GPRS UDP ☑ [1] UDP: Igrudp. hwm-wate ☑ [2] UDP: GPRS Call Times Call Times Call Times Call Times Table ☑ GPRS Network ✓	>I.c >2<		
		<< Previous Next >> Finish	

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 winodw 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 -

tagate. mobifi.com /dgweb/logger	html?id=29036				🚖 ⊽ C 🛛 🚼 * Google	Q	-	
ted 📵 Getting Started								
HWM	DataGate					Current üser: hwmsa01 Access level: Super admin Logout: logout		
Loggers	View logger							
Loggers Summary All Loggers Quiet loggers Lost loggers Upload loggers Create a new logger Send to loggers Logger Types Logger types New logger type Channel units Channel units	Serial number 233 Datagate number 230 Mobile number 290 GSM data number Site name Per Site in 11th Date created 14-4 Network T-M Network T-M Network T-M Sound by Miar	3197 6 7297540 hanet HUB 5t Yard ar-2013 02:35:38 bile ii Dade County1 ccounts Alarm resp	L L Haig Sta B Battery oc Signal Signal Signal Signal	atitude 25.78441 Ingitude -80.21185 ht AOD rt date 21-Mar-20 di date 14-Mar-20 di da	13 00:00 18 23:59 Outgoing messages	Edit logger	D	
Accounts	Incoming GPRS message	s	Incoming SMS messag	es	Outgoing messag	es		
My Account My Account Change my password All accounts All accounts Create new account	Deduct credits fal Credits 10 Credits used 0 Number received 0 Waiting for credits 0	se (toggle) 0000	Deduct credits Credits Credits used Number received Waiting for credits	false (toggle) 1000 0 0 0	Deduct cre Cre Credits o Number Waiting for cre	adits true (toggle) adits 1000 used 0 sent 0 adits 0		
Logs	Alert after x days 0		Alert after x days	0	Last message	sent		
Messaging logs Incoming SMS Incoming GPRS Incoming Alarms Outgoing messages	Add incoming 0	PRS credits	Add incomin	g SMS credits Add SMS credits	Add	Add credits		

Select the 'Channels' tab -

.e.mobifi.com/dgweb/logger.ht	ml?id=29036#channels				☆ v C	🔡 🕶 Google	,)	3
Betting Started									
HWM	DataGate						Current user: hwmsa01 Access level: Super admir Logout: logout	a.	
Loggers	View logger								
Loggers Summary All Loggers Quiet loggers My Loggers	Serial number 2 Datagate number 2 Mobile number 1 GSM data number	5323197 9036 9047297540	La Lony Heigh Star	titude 25.78441 jitude -80.21185 AOD t date 21-Mar-2	5 013 00:00		Edit logger Edit logger channels		
Lost loggers Upload loggers Create a new logger Send to loggers	Site name P Site id 1 Date created 1 Network T	ermanet nuo 1th St Yard 4-Mar-2013 02:35:38 -Mobile Vis	Battery con Signal str V	dition 0.0v ength arsion	010 23:28				
Logger Types Logger types New logger type	Owned by M	liami Dade County1		Type					
Channel units Channel units New channel unit	Credits Channels	Accounts Alarm response	es Incoming data	Incoming text	Outgoing mes	sages		_	
Accounts	Channels								
My Account My Account	Number Flow pulse	e factor Meter read value	e Meter read date	Analog low	Analog high	Name Offs	et Measurement Dele	e	
All accounts All accounts	Nothing found to display.	_							
oqs		A	dd new channel	Edit logg	jer channels				
Messaging logs Incoming SMS Incoming GPRS Incoming Alarms Outgoing messages									
Lost messages									

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

gate. mobifi.com /dgweb/editloggerd	hannels.html?loggerld=33207			G ▼ C Google	P 🖸	-
ed 😻 Getting Started						
Send to loggers	Channel type	Pressure	Channel type	Flow		
Logger Types Logger types	Calibration Multiplier	0.1	Calibration Multiplier	10.0		
New logger type Chappel units	Meter read value		Meter read value			
Channel units New channel unit	Meter read date	17 v 6 v 2013 v 0 v 0 v	Meter read date	17 v 6 v 2013 v 0 v		
Accounts	Analogue low value		Analogue low value			
My Account My Account	Analogue high value		Analogue high value			
All accounts						
All accounts Create new account	Channel 3		Channel 4		-	
Logs	Number	3		•		
Messaging logs	Name	Noise	Name	Spread		
Incoming SMS Incoming GPRS	Offset	0.0	Offset	0.0		
Incoming Alarms	Channel type	Noise 🗸	Channel type	Spread v		
Lost messages	Calibration Multiplier	1.0	Calibration Multiplier			
Lost messages summary Extended API	Meter read value		Meter read value			
Other logs	Meter read date	17 v 6 v 2013 v 0 v 0 v	Meter read date	24 v 10 v 2013 v 10 v 0 v		
API log	Analogue low value		Analogue low value			
Logs Logins	Analogue high value		Analogue high value			
Credits	-					
Global credits Credits Message statistics	Update logger channe	Is				
Statistics						
Statistics						
ADT						

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



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ate: mobifi.com /dgweb/logger.ht	ml?id=29036#c	hannels				$\sum_{i=1}^{n} \forall C^{i}$	🔡 🕶 Goo	ogle		P	
Getting Started											
New channel unit		Owned by Miami Da	de County1								
My Account My Account	Credits	Channels Acco	unts Alarm response	es Incoming data	Incoming text	Outgoing mes	sages				
Change my password All accounts All accounts	Channels								p.		1
Create new account	Number	Flow pulse factor	Meter read value	Meter read date	Analog low	Analog high	Name	Offset	Measurement	Delete	
Logs	1	0.1		2013-10-24 00:00:00			Pressure		Pressure	슝	1
Messaging logs	-	10.0		2013 10 24 00:00:00			Flow		Flow		
Incoming GPRS	2	10.0		2013-10-24 00.00.00			1 IOW		now	8 22	
Incoming Alarms Outgoing messages	3	1.0		2013-10-24 10:00:00			woise		Noise	11	
Lost messages	4	1.0		2013-10-24 10:00:00			Spread		Spread	11	
Lost messages summary Extended API			A	dd new channel	Edit logo	er channels					
Other logs											
API log											
Logs											
Logins											
Credits											
Global credits Credits Message statistics											
Statistics											
Statistics Incoming messages											
API											
ADI Taska											
API tests API test Messaging test											

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