

MAN -143-002 C GPRS Pressure Transient Logger Part number - RDL976/x/x Series

Version 1.2



Warning: This manual contains important safety and operating information. Please read, understand and follow the instructions in the manual.

Contents

INTRODUCTION
UNPACKING
INSTALLING THE SOFTWARE4
INSTALLATION AND SITE HARDWARE DIAGNOSTICS TOOL (IDT) 5
READING THE LOGGER5
CONFIGURING THE LOGGER7
DATA COMMUNICATIONS CONFIRMATION – GPRS TEST 12
TAKING A READING FROM THE LOGGER AND HARDWARE TESTS 14
CHECKING YOUR LOGGER ON DATAGATE
SETTING UP RADWIN SOFTWARE
DOWNLOADING DATA FROM DATAGATE TO RADWIN

Introduction

Thank you for choosing an HWM data logger(s), we trust it will provide you with many years of service.

The individual configuration of your logger(s) may differ slightly from the detailed descriptions that follow, but any additional setup information that you need, can easily be obtained from our customer support team.

Unpacking

As you unpack your new logger, please confirm that you have the following parts required to install the equipment. If there are any omissions, please contact our sales team to rectify or supply the missing parts.

- Telemetry Pressure Transient logger
- Communications cable
- HWM IDTV Software (also available at <u>www.hwmglobal.com</u>)

Please dispose of your waste packaging responsibly.

Before proceeding to site for physical installation, please take the time to configure your logger in an office environment. Most settings can be configured before visiting site and this will save time at the point of install, especially if the weather is bad.

You will need to have:-

all a

A PC with Windows 7/8/10 installed (IDT also supports Windows XP & Vista) A description and reference number for the installation site:

The reference number is split into a Zone and Location format to allow for grouping of individual "Locations" into larger regions or "Zones". The format of the number is configured during the initial installation of the software but essentially is a 7 character code, e.g. AB123CD

Installing the software

- 1. Insert the CD-ROM supplied into your CD drive.
- (If your PC does not have a CD drive, then either copy the files from the CD-ROM onto a memory stick, or download and run the installation file from the HWM website at <u>www.hwmglobal.com</u>)

NOTE: If you use proprietary archiving software, such as WinZip or 7zip, please ensure that you extract the files to a temporary folder using the automatic extraction buttons that maintain the original folder structure.

- 2. Ensure you have system administration rights for your computer, ask your IT department if you are unsure.
- 3. If it does not start automatically, run Setup.bat from the CD, or separately run IDT_Install and Radwin_Install.
- 4. Click <<Next>> when you see the screen below

岃 IDT	
Welcome to the IDT Setup Wi	zard 🔩
The installer will guide you through the steps requir	ed to install IDT on your computer.
WARNING: This computer program is protected by Unauthorized duplication or distribution of this prog or criminal penalties, and will be prosecuted to the	ram, or any portion of it, may result in severe civil
Ca	noel < <u>B</u> ack <u>Next</u> >

- 5. Follow the on screen installation instructions to complete the install of the IDT.
- 6. Follow the on screen instructions and the drivers will install automatically. Should the automatic installation fail, please check with your system administrator that you have sufficient rights to install the driver or try installing the drivers manually. You may be required to update Microsoft .Net; the install file is

You may be required to update Microsoft .Net; the install finduded with the IDT setup files for your convenience.

Installation and site hardware Diagnostics Tool (IDT)

Once you have installed the IDT, connect the USB cable first to the logger and then to your PC – Note there will be a short delay before the PC recognises the connection of the logger. This is normal, if your PC has sound enabled you will hear the "ping pong" sound as the logger connects.

The first time you connect your Logger to a new USB port, Windows will configure the driver, wait until this process is completed before proceeding



10mins. If you try to communicate with the logger after this time, a message "Connect/Re-connect logger!" will appear. Simply unplug the USB plug from your computer, wait for 2 seconds and then reconnect. This will wake up the logger again.

4. The IDT will now download the current settings from the logger.

At this point the IDT will check to see if there is a more up-to-date version of the logger firmware available on your PC, if so, you will see the message "Update Available". Click <<Yes>> to update the logger, the process will take approximately 2 minutes, however the logger will be restarted so you may wish to transfer any logged data first, in which case click <<No>>.

The IDT checks the firmware version each time you read it.

Update Available
Current FW-138-001 V1.56 Latest FW-138-001 V1.61 Update now?
Yes <u>N</u> o

5. Once all the settings have been loaded you will see this message, Click <<OK>> to start configuring your logger.

×
Logger Read Success
ОК







For optional Flow channel apply the litres per pulse factor as defined by the meter or sensor

9

Flow Bi

Ch4

✓ Off

 \sim

10

d. Transient settings -

Select the transient mode you require from the drop down

Select the frequency you require

- Record data at specific times allows the transient event to be recorded for a selectable duration
- Recording triggered on alarm event allows the transient to be recorded for selectable durations before and after the event. Set the High and/or low level trigger points for recording start. All data is continuously recorded to the SD card.

Note: By default you are limited to 9 transient recordings per day

t Logging -			
Logging at greater than 1 Hz (Transient) $ \lor$			
Settings			
Sample Frequency (samples/sec) 100 Hz 🗸 🗸			
Recording Mode Record at specific times of the day Record on trigger condition with continuous recording to SD card 			
recording to SD card Recording Trigger Conditions			
✓ Low level trigger value 48.00			
High level trigger value 52.00			
Use complex triggers			
Include 5 seconds of data prior to event \sim			
Duration of each recording 20 seconds ~			

e. **APN** – If you have ordered a data pack from HWM you can leave this setting alone (as below) as your logger will have been preconfigured by HWM.

If you have ordered your data service & SIM card, then you will need to

AFIN	
۲	Use GPRS test to choose APN settings
\bigcirc	Use the following settings.

separately configure your service. HWM recommends that you allow the GPRS test utility to search for these settings automatically, however if you wish to enter them manually, click the button beside "Use the following settings"

You can now enter your -	APN	
data service provider's		test to choose APN settings
details into the appropriate	Ose the fol	llowing settings.
boxes.		
	Presets	-
	Address	mobile.o2.co.uk
Alternatively select your	User	mobileweb
network from the drop	Password	password
down list of presets		
f. Time(s) Data sent – I	Here vou	specify the Call Out

requirement for the logger. There are 2 modes available, SMS and UDP.

SMS is a one way unacknowledged data transfer service using the common text messaging service. UDP is a true 2 way confirmed data transfer process via the internet over a GPRS connection. Both have advantages, however HWM recommends UDP wherever possible as this offers the most secure method of data transfer.

Time(s) Data is Sent

Port

A

Switch on the Call out by selecting "On" in the Address selector, then choose 'UDP' or 'SMS' from the Type selector. See below for Mode settings

Address	Туре	Mode	Freq hh:	Freq hh:mm	
On 🔻	UDP	▼ Freq ▼	00:15	-	

23024

SMS No. 310000202

g. Call Addresses - These will usually have been entered at the factory and should not be Data Destination adjusted, however if you have your Address inbound.hwmonline.com

either the telephone number for your receiving modem, or the UDP

own data server, then you can enter

address & port no for where the logger is to send its data.

The fall back times specified here instruct the 06:00:00 🚔 Fall back 1 logger what to do in the event of the primary Call 16:00:00 🚔 Fall back 2 Out requirement not being met. This can be for 2 reasons:-

- a. If a connected external battery goes flat, the logger will default from the normal call out requirement to a 2 times per day routine. The times of these calls are specified by both Fall back 1 & 2.
- b. If a GPRS data call cannot be completed due to nonavailability of a GPRS service, then the logger will try to send an SMS message at the Fall back 1 time.

Now choose your Call out mode, this can be either "Freq" for a call made at a regular frequency throughout the day or "Time" to specify up to 8 individual times during the day. Enter either the frequency (e.g. $06:00 = every 6^{-7}$ hours) or the time for the call in the box.

11



h. **Complex Alarms** – The Logger has a comprehensive alarm system that you can configure to send out Alarm messages when certain defined conditions are breached and for the Transient logger you will need to use Alarms to define the transient levels from which you want the data to be recorded.

When an alarm condition is triggered, a new call in frequency (i.e.faster) can be specified to allow the observer to gain more up-to-date data during an event.

Alams	
Call frequency while in alarm	00:05
MNF Window end hh:mm	06:00
Flow level units	Litres/sec 🗸
Aams sent via SMS	
Alarm SMS No	+12345678



Data Communications Confirmation – GPRS Test

It is important to confirm that your logger is communicating with the data server before you leave site (or to be confident, your office), so you should undertake a GPRS test before you leave the logger in the field.

1. Connect an appropriate GPRS antenna to the FME socket on the logger. The location on the logger can vary depending on the configuration of logger ordered, but the picture below illustrates a typical connection.





Note: If this is the final aerial connection, ensure that the connector is tightened with spanner or pliers to prevent water ingress to the antenna plug as this will reduce performance. Do not over tighten.

- 3. Run the IDT and 'Read your logger' (as Reading the logger section steps 1 to 5)
- 4. Now click the <<GPRS Test>> function button.
- 5. The GPRS Test program will now automatically execute a communications check with the data server, DataGate[™] and deposit a test message that can be checked later on.

ſ	GPRS Conne	ction Test - V1.11
Status :		Information
	Type : IMSI :	
	Operator :	GPRS connection test completed successfully
	CSQ:	
	APN:	OK
I	IP Addr. :	

The test will take a few minutes and will confirm that the communication is successful. **Troubleshooting a GPRS**

Read Logger

GPRS Test

test failure.

There are a number of reasons why a GPRS test may fail,



the following points should be checked before calling HWM support for assistance:-

Possible Problem	Solution
Network Busy due to	Retry the test after a few
excessive traffic. Commonly	minutes.
occurs around schools.	
GPRS signal not available at	The logger will call into the data
your location. Not all Cell	warehouse once per day using
masts carry GPRS traffic	an SMS message; relocate the
	logger if more frequent
	communications is required.
Network signal not strong	Relocate the antenna if possible
enough. You need a CSQ	or try alternative antenna
(reported by the GPRS test)	configurations. Ensure antennas
of at least 8 for reliable	are vertically orientated where
communications.	possible. See aerial placement
	notes section.
APN settings incorrect.	The GPRS tester knows about a
	large number of cellular networks
	and will try as many settings as
	possible and correct any error
	automatically.
	If there is still a failure, then you
	need to check with your network
	operator that you have the
	correct settings for your SIM.

If you continue to experience problems with communication, you may need to check the network coverage in your location.

Taking a reading from the logger and hardware tests

You are now ready to confirm that the logger is measuring real data from the sensors by taking an Instantaneous Value.

- 1. From the IDT menu bar, click the <<Hardware Test>> tab.
- 2. Click the <<Go>> button to start to check the operation of your installed system.

Go

3. The IDT will now display its measurements for a period of 10 minutes to allow you to diagnose any issues with cabling

Ambient temperature Battery voltage	
Instantaneous Pressure	
value	
Time until test stops & Manual Stop	
button	
Open 10min power window button	
Modem Diagnostics	
Force call now – will send in data if there is any available	
When you are ready to stop the test just click the < <stop>> button.</stop>	

- 4. A "Power Window" allows you to keep the logger's modem turned on for a period of 10 minutes. This allows you to close the chamber lid and send a text message to it to confirm that communications is still OK.
- 5. Pressing <<Force Call>> forces the logger to send its data in immediately. Useful for when you wish to shift a logger to a new site.
- 6. The <<Modem>> button allows some more advanced diagnostics to be performed on the modem.

Indicates total number of calls made	Modem Diag on Com38	13184	
Provides the current signal strength Provides the IMSI & IMEI numbers for the	Call total: 12433 Calls	99 Registered 98 Registered 97 Registered 96 Registered 95 Registered 94 Registered 93 Registered 92 Registered 91 Registered	+CSQ: 23 +CSQ: 23 +CSQ: 22 +CSQ: 22 +CSQ: 22 +CSQ: 22 +CSQ: 22 +CSQ: 22 +CSQ: 22 +CSQ: 22
modem	Test Telephone no 07540123746		
15	Janu SMS		

Enter a mobile phone number here & click <-<Send SMS>> to instruct the logger to send you an SMS test message.

7. If you click the <<Data Collection>> tab Setup Hardware Tests Data Collection SD Card Data vou will now see a set of tools for downloading data from your logger for later uploading to the data server. It can also be of assistance for diagnosing problems.



- a. From the Download size selection, choose how much data you wish to retrieve, from everything the logger has stored to any un-sent data since the last time the logger called in.
- b. Click <<Download>> and choose "Archive" when prompted and the data will commence downloading. If you wish to stop the process, click <<Abort>> and the download will cease.
- c. A small chart will now be displayed showing the data downloaded. By using your mouse to draw boxes in the graph area you can zoom into areas of interest. Click the small circles at the end of the drag bars to zoom out. By hovering your mouse over the points on the graph, you will see the exact value recorded.



d. If your logger is in a location where GPRS communication is not possible, you can now upload the data when you are next connected to the internet. Simply click <<Post files>> and all the data you have downloaded to your PC will be uploaded in one go. If you are downloading more than one logger in a route, all data is stored and transmitted together. If you decide that you do not wish to post the data you have downloaded, click the <<Empty postbox>> button to remove the downloaded data from your PC.

Note: Choose the other data types depending on what recordings you wish to retrieve / view.

Note: For Pressure transient logging you will only be able to view the summary graphs for the channels you have set configured. To view the pressure transient detail you would need to download the data into Radwin software

Checking your logger on Datagate

In your Datagate account identify the correct logger, double click on it and then if you select the messages Tab -

DataGate Site:	s ▼ Accounts ▼ Data ▼ More ▼		Sites ~ ANDYE -
	SITE D	ETAILS	Walter Barris
		THE REAL PROPERTY AND INCOME.	and the second
Site ID: 3ML2Mk2	Create Date: 21-Feb-2017		Map Satellite
GPS:	Start Date:		Henlins Way
Height AOD:	End Date:		ray Cours
Address: 3ML2Mk2	Owned By: Anthony Rees		Wo Locks Rd
Address 2: My Desk			a logo atom
Quiet Days: Default (3)			di Way Oakfield
Enable Alarm Forwarding For This Site			Goo Map data 82017 Google Terms of Use Report a map error
Maintenance Required			Edit Site Add To Selected Sites List Show Data
Notes: 21/02/17@1457 - ML2 (v2), 4 ext pressu	ire, SD card. For fast logging testing.		
Logger Details Edit			
SMS Number: 359876543210000	Logger Type: Multilog2 3.88	Last Restart: 20-Mar-201	7 14:25 [10-Jul-2012
GSM Data Number:	Battery Level: 10.1V	13:06]	
Logger Serial Number: 0999969	Signal Level: 27	Last Call In: 20-Mar-2017	7 15:02 [5m]
Network: O2	Sensor Serial Number:	Last Call In Type: UDP [16	64.177.135.201]
Previous Battery Replacement Date:			
Next Battery Replacement Date:			
Notes: N/A			
Channels Accounts Alarm Setting Mess	sages Text History Track Received Alarms	Commands Photos	Config Recordings
Channel Details for Logger			
No Name Channel Type	Units Meter Read Value Meter	er Read Date	Meter Factor Cal Factor Cal Offset Edit Remove
1 Pressure	m		0.1 0 Edit Remove

Here you can check the data is incoming -

Channels Accounts Alarm Settings Messages Text History Track Received Alarms Commands Photos Config Recordings
Data Messages for Logger: Last 24 Hours V Decode Messages

					©c
ID	RX Time	Battery	CSQ	GPRS/SMS	Message (Click to decode)
1296605025	20-Mar-2017 15:02:10	10.1V	27	GPRS	UDP Config,FW-786-063 6301
1296604807	20-Mar-2017 15:02:04	10.1V	27	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 15:01:29,DST: 20/03/2017 15:00:15,No. o oints: 74
1296604806	20-Mar-2017 15:02:04	10.1V	27	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 15:01:29,DST: 20/03/2017 14:56:49,No. o oints: 206
1296601439	20-Mar-2017 14:57:14	10V	28	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 14:56:49,DST: 20/03/2017 14:54:45,No. o oints: 124
1296601438	20-Mar-2017 14:57:14	10V	28	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 14:56:49,DST: 20/03/2017 14:51:19,No. c oints: 206
1296601437	20-Mar-2017 14:57:14	10V	28	GPRS	UDP Config,FW-811-063 6301
1296597410	20-Mar-2017 14:52:08	10V	28	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 14:51:19,DST: 20/03/2017 14:50:07,No. o oints: 72
1296597409	20-Mar-2017 14:52:08	10V	28	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 14:51:19,DST: 20/03/2017 14:46:41,No. o oints: 206
1296597408	20-Mar-2017 14:52:08	10V	28	GPRS	UDP Config,FW-886-063 6301
1296590590	20-Mar-2017 14:47:18	10.1V	27	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 14:46:41,DST: 20/03/2017 14:45:15,No. c oints: 86
1296590589	20-Mar-2017 14:47:18	10.1V	27	GPRS	FW-138-006 3.88RST: 20/03/2017 14:25:44,RTC: 20/03/2017 14:46:41,DST: 20/03/2017 14:41:49,No. c oints: 206

Once the data is coming in you will be able to view the graph on HWMOnline.

The data will be displayed as additional traces on the graph for a Sample Frequency setting of Sample Interval. For higher Sample Frequency rates the primary trace on HWMOnline will display a diamond symbol to indicate the point where a transient occurred.



Click the diamond to provide a close up view of the transient



For more advanced manipulation and viewing of transient data you can download the data from Datagate into Radwin. See the following section on how to install and setup Radwin.

Setting up Radwin software

Two things must be done -

1. Set up Radwin to receive data from Datagate

First set up Autocall as follows -

In Setup > System configuration > Autocall ports Select a free port (highlight it and then click Edit selected item)

System Configuration	n : Autocall - Ac	lvanced		X
Configure: Advanced Radwin All Manual Call		ind specify its function. If pr	to be used for Autocall Downloads. Select the required port to cessing of SMS Messages is required, but no SMS Modern is	
- 😽 View	Database Syste	m Startup Autocall Ports	Autocall Options Autocall OMS Alarm/Error Exporting	••
Autocall	Enable Port:	Default Baud Rate:	Connection Type:	^
Export	👼 СОМ1	9600	SMS Modem	
Alarm Programm	₩ СОМ2	300	Process SMS Messages from FTP Site	Ξ.
📲 Alarm Receiver	<u>а</u> сомз	300	Modem	
🛛 🥳 😽 Remote Autocall	COM4	300	DataGate	
🦾 🎆 Remote Alarm R	COM5	300	Modem	
	а <mark>б</mark> СОМ6	9600	Modem	
	👼 СОМ7	300	Modem	
	COM8	300	Modem	
	COM9	300	Modem	
	COM10	2400	Modem	
	COM11	19200	Direct Logger (RS232) Modern	~
	1.24111011	19.70		-
			Edit Selected Item	
	Help - Find Avai	able Ports	OK Can	cel

In 'Edit Selected Item' Screen then select 'Datagate' from the connection Type drop down.

	Confi	gure Port		×
Select Enab determines h	le Port to use this port with Auto low this port is used to talk to lo	call. A Connection Ty ggers. The default bau	pe must be specified wh ud rate is only important i	ich ^ í this 🗸
Port Configuration -				
Enable Part:	Connection Type:		Default Baud:	
(🖂 сомв	DataGate		🛨 🦪 9600	<u>~</u>
HTTP Configuration	https://radwin.hwmon	ine com/ani/		
Username:	Indext	Password:		
Usemaine.		Passwoid.		
			OK	Cancel

Click on Enable port (tick the box) Enter your Datagate account details in Username and Password. (These should have been supplied to you)

	System Configu	ation : Radwin All	
Configure:	Autocall Ports - Select the comm p enable it and specify its function. I	processing of SMS Messages is r	equired, but no SMS Modern is
- Stylew - Autocali - Data Generator - Stata Export - Alam Programm - Alam Receiver - Stata Remote Autocali - Stata Remote Alam R	System Selections Statup Transduc Enable Port: COM1 COM2 COM3 COM3 COM4 COM5 COM5 COM5 COM5 COM5 COM5 COM5 COM6 COM6 COM6 COM7 COM8 COM10 COM11 COM11 COM10 COM11 COM10 COM	Connection Type: Modem Modem Modem Modem Modem Modem DataGate Modem Modem Modem Modem	Default Baud: A 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300 300

2. Set up the loggers in the Database (if they are not already there).

In Set up > Options > Item configuration you should now see your logger database as below.



If your logger details are not here then you need to enter your logger details as follows.

You may need to add a new Zone (or you can add your logger to an existing Zone.)

To enter a new zone –

Click on the 'Hammer & Sickle' icon (see screen shot above) Then select 'Create New Zone' to reveal this screen shot

	~
	*
014	
ANDY TEST	
Save Cancel	
	ANDY TEST

Enter your Zone I/D and Name and then 'Save'.

You should now see the new Zone in the list as below.



Highlight the new Zone and select the 'Hammer and Sickle' Icon again This time select 'Create New Location'

You should now see this screen (below)

Configure: Basic Radwin All Manual Call View View	Location - Specify the location identity and name. Enter names for each of the logger channels.
Autocall Ata Generator Ata Generator Alarm Programm Alarm Receiver Remote Autocall Remote Alarm Re	Identity Identity Zone: Image: Construction Location: Image: Construction Image: GIS Position: 00° 00' 0.00" N, 00° 00' 0.00" E
	Channel Name Channel Name A 01 A 02 A 03 04

First select the Location Tab - enter your location description (numerical and alphanumeric descriptions)

Then select the 'Logger' tab -

	Location Configu	rationOS_22 : Radwin All
Configure: Basic Radwin All Kawin All Kuew Kuew Call	communicate with the logge	type and baud rate. Select the connection type (how the computer will r), and enter telephone numbers if required. The logger manufacture nsducer Unit/Levels Meter Autocall Memo Auto Database E Baud: 99600 11/01/1970 Serial: 41351 11/01/1970 Last Known Logger Configuration GPRS
		Print Save Cancel

Fill in the logger details as accurately as possible.

Logger type from the drop down – Note : For Pressure Transient Logger the type is 'Other Logger'

Baud rate is automatically set

Serial number can be entered – it is found on the logger label **Connection type** – select GPRS from the drop down

SMS Voice number – be sure to enter the correct logger phone number in international format (+44 drop the zero- OR for international numbers ensure it is exactly the same as the number in Datagate) DOUBLE CHECK THIS NUMBER IS CORRECT

Location C	onfiguration15_01 : Radwin All	
Basic each recording ch Radwin All	Channel 01	a. Select 'Configure' or double call Memo Auto Database E

Check that the Channel type is Analogue Pressure and the Calibration value is 0.1 - if it isn't select 'Configure' and edit the channel configuration as below -

	Pressure Transducers	>
	units Sensor type. This defines the type of units that can be he data. Select a stored transducer from the list, or select user	Ŷ
Sensor Type:	Pressure	
Transducer		
Select:	User Defined Transducer 🗨 Remove	
Enter/Edit Transc	lucer	
Name:		
Calibration:	0.100000	
Offset:	0.000000	
Data Type:	All Data Values 💌	
Add to	Select Transducer List Bands	
Export	OK Cancel	

Select 'OK' to save.

Remember now to repeat this process for the other channels you have set up by selecting each channel from the drop down.

-	Location Configuration _OS_23 : Radwin All
Configure: Basic Radwin All Manual Call View Autocal Data Generator Export Alarm Programm Alarm Receiver Remote Autocall Remote Alarm Ru	Transducer - Select the transducer type for each channel. Transducers Must be configured for each recording channel in order to calibrate the downloaded data. Select 'Configure' or double Location Logger Statistics Transducer Unit/Levels Meter Autocall Memo Auto Database E Channel: Channel: Data Factors Calibration: 8.790819 Offset: -3516.327637 Configuration Transducer Type 4-20 mA Configure
	Sensor Type: Pressure Transducer Name: Full Scale Deflection (20mA) Value: Full Scale Deflection (20mA) Value: 14065.310547 Data Type: All Data Values

Once the channel configuration is completed select 'Save'

Update Existing Location	×
Select OK To Update the Existing Location :OS_22	
OK Cancel	

Select 'OK' to complete the logger configuration in Radwin software

Repeat this process for each of your loggers.

Downloading data from Datagate to Radwin

Because of the size of the data to be downloaded from Datagate we would advise you to run Autocall all the time on your PC so that Radwin is constantly downloading and updating the data in its database

Start Autocall

This will process all the available data messages from Datagate relating to your loggers.

Radwin Autocall V4.67.1 - Computer 1 (C:\M	ly Documents\Customer Services\ECM\ECM DATA Jan14) – 🗖
e Options Configuration Start Help	
월 📳 🛷	
SMS Modem	- Line Autocall □
Unable To Open Comm4 - Port does not exist or USB has been unplugged.	Search:
Port10 DataGate {http://datagate.mobifi.com/data	Search: Topics Search Results
Datagate Processing FTP2: 654 447568124753	Abort Introduction
Comm14 SMS To DataGate	Getting Started Configuring Autocall Comm Ports
Unable To Open Comm14 - Port does not exist or USB has been unplugged.	Configuring Loggers for Autocall Download
	Scheduled Calling
	Introduction
	Autocall is the automatic data download
	package of Radlog For Windows. It may be configured to use up to 32 comm ports,
	providing parallel download capability of Radcom data loggers. It supports Direct,
	PSTN Modem, GSM Modem, SMS Modem,
	and Paknet Modern connection types.
	HWM Getting Started
	In order for Autocall to communicate, Comm
pyright ©2014 Halma Water Management	Current Errors: 0 Logger Time: 25/09/2014 12:31:37

Once the data is constantly downloading and updating the Radwin database you can view it as follows -

From the View screen select the 'Open Data file' icon -



🔁 Data File 🏼 🚰 Data Time Peri	d 🔗 Function Sets	
: Yadwin\SmartLog		- ×.
	(06/10/2014-09:50:33) :	
- M1812 07/10/2014	{06/10/2014-09:51:06} :	
- M1813 07/10/2014	{06/10/2014-14:23:11} :	
- M1814 07/10/2014	(06/10/2014-14:23:44) :	
	{06/10/2014-14:24:17} :	
	(06/10/2014-14:25:33) :	
	{06/10/2014-14:26:06} :	
	(06/10/2014-14:26:39) :	
	{06/10/2014-14:27:45} :	
	{06/10/2014-14:28:51} :	
	{06/10/2014-14:29:24} :	
	{06/10/2014-14:29:58} :	
	{06/10/2014-14:31:22} :	
	(06/10/2014-14:31:55) :	
	{06/10/2014-14:32:28} :	
	{06/10/2014-14:36:31} :	
	{06/10/2014-14:37:37} :	
	{06/10/2014-14:38:10} :	
	{06/10/2014-14:38:45} :	
	(06/10/2014-14:40:36) :	
	{06/10/2014-14:41:09} :	
	{06/10/2014-14:41:42} :	
	{06/10/2014-14:42:15} :	
	(06/10/2014-14:42:48) :	
	(06/10/2014-14:43:54) :	
	(30/09/2014-02/10/2014) 1	
	(02/10/2014-07/10/2014) :	
B ⊕ SSST : B ⊕ SW01 : Iridum		

'A' Files are normal logging (non transient) archive files which are appended at every Autocall download; whereas 'M' Files are the transient files, as they are separate events that do not get appended to.



Note - 'A' Files cover a period between two dates, whereas Transient 'M' files are denoted by the date and time allowing easy access to the main transient events that you might want to investigate in detail.

Double click on the data file with the time and date of the transient you want to look at and select 'OK' at the following screen -



This will launch the Radwin View Graph which can be manipulated to view the pressure transients in detail using the normal View features and controls -



Warnings:

FCC warning statement:

• This device complies with Part 15 of the FCC Rules.

Operation is subject to the following two conditions:

(1) This device may not cause harmful interference, and

(2) This device must accept any interference received, including interference that may cause undesired operation.

- This equipment complies with FCC radiation exposure limits set forth for an uncontrolled environment. End users must follow the specific operating instructions for satisfying RF exposure compliance. This transmitter must not be co-located or operating in conjunction with any other antenna or transmitter.
- Changes or modifications not expressly approved by the party responsible for compliance could void the user's authority to operate the equipment

Under Industry Canada regulations, this radio transmitter may only operate using an antenna of a type and maximum (or lesser) gain approved for the transmitter by Industry Canada.

To reduce potential radio interference to other users, the antenna type and its gain should be so chosen that the equivalent isotropically radiated power (e.i.r.p.) is not more than that necessary for successful communication. This device complies with Industry Canada licence-exempt RSS standard(s). Operation is subject to the following two conditions: (1) this device may not cause interference, and (2) this device must accept any interference, including interference that may cause undesired operation of the device.

Conformément à la réglementation d'Industrie Canada, le présent émetteur radio peut fonctionner avec une antenne d'un type et d'un gain maximal (ou inférieur) approuvé pour l'émetteur par Industrie Canada.

Dans le but de réduire les risques de brouillage radioélectrique à l'intention des autres utilisateurs, il faut choisir le type d'antenne et son gain de sorte que la puissance isotrope rayonnée équivalente (p.i.r.e.) ne dépasse pas l'intensité nécessaire à l'établissement d'une communication satisfaisante.

Le présent appareil est conforme aux CNR d'Industrie Canada applicables aux appareils radio exempts de licence. L'exploitation est autorisée aux deux conditions suivantes : (1) l'appareil ne doit pas produire de brouillage, et (2) l'utilisateur de l'appareil doit accepter tout brouillage radioélectrique subi, même si le brouillage est susceptible d'en compromettre le fonctionnement.

HWM-Water Ltd Ty Coch House Llantarnam Park Way Cwmbran NP44 3AW United Kingdom +44 (0)1633 489479 http://www.hwmglobal.com/



MAN-143-002-C (GPRS Pressure Transient Logger).docx

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