

## Quick Start Guide for Manual use of the GPRS Transient Logger with IDT & Radwin Version 1.3

- 1. Download and install the 'Installation and Diagnostics Tool' and 'Radwin' from the HWM Website or from the CD-ROM (See main user guide for details on how to do this).
- 2. Connect your Transient Logger to your PC with the USB communications cable, CABA8585
- 3. Run the IDT program.
- 4. Click <<Read Logger>> and the IDT will download the current configuration of the logger.

The following example assumes the user wishes to capture normal 15m logged pressure data with 100Hz transient detection of any pressure surges over 75m with continuous recording to the SD card.

- 5. Set the Sample Frequency to 100 samples \_\_\_\_\_ per second
- 6. Choose 'Recording on trigger condition...'
- 7. Tick the box and Enter 75 for the High level trigger
- 8. Set 5 seconds pre trigger recording time -
- 9. Set 30 seconds recording time

	Settings		
	Sample Frequency (samples/sec) 100 Hz V		
	Recording Mode		
	<ul> <li>Record at specific times of the day</li> </ul>		
	Record on trigger condition with continuous recording to SD card		
	Recording Trigger Conditions		
	Low level trigger value 0.00		
	High level trigger value		
	Include 5 seconds of data prior to event ~		
	Duration of each recording 30 seconds ~		
•			

These settings will continuously record data to the

SD card from the Start Time and when an event is triggered by the alarm (see below) it will make a fast data recording from 5 seconds before the alarm was triggered to 25 seconds afterwards.

This sets the alarm threshold to 75m with a default Hysteresis of 1m, meaning that the logger will wait until the logged pressure passes above the 75m threshold, but will not trigger an additional alarm until the pressure has dropped below 74m again.

- 10. Click the <<Setup Logger>> button to configure the logger. Note: If you see an error that the software cannot find the logger, simply unplug the logger and plug it back in again.
- 11. When prompted that no call outs are set, click <<Yes>> to continue.
- 12. When successful programming has been confirmed, unplug the logger and deploy it on site. It will normally commence recording within 15 minutes unless you have specified a different Log Interval.

More detailed instructions of the site installation process are explained in the main manual.

**IMPORTANT:** The SD card is cleared out when you click the Setup Logger button so be sure you have saved any data **before** restarting the logger.

## How to download data and View in Radwin 1. Connect the logger to the computer using the USB cable 2. Select the Data Collection tab and Setup Data Collection Hardware Tests Fast Logging Files Tran 4 click <<Download>> Download period Un-Sent 3. 15min logged data files will be placed in the folder Download Post files Trash files Abort c:\HWM\IDT\DataUpload tup Data Collection Hardware Tests Fast Logging Files Tran 💶 🕨 4. Select the Fast Logging Files tab File 1: 20 Jul 2015 15:40 05 5250 bytes File 2 empty File 3 empty File 4 empty 5. If there have been transient 5 empty File recordings made then you will see File 6 empty File 7 empty them in the file list. The most recent File 8 empty File 9 empty 16 transient recordings will be File 10 empty File 11 empty available for quick download, full File 12 empty File 13 empty data is always available from the SD File 14 empty card. File 15 empty File 16 empty 6. Click the <<Get Secondary Files>> button. Get Secondary Files 7. The transient files will be placed into Erase Secondary Files the folder c:\HWM\IDT\DataUpload 8. Click the <<Erase Secondary Files>> button if you wish to clear out the old recordings from the logger's temporary store and start again, this will not remove the files from the local folder or the SD card. Launch Radwin View to create the logger in the Database Logger Identity Selection Method: 10. When prompted Click <<OK>> to Zones and Locations create a new Database. Configuration -By default a Zones & Locations C:\Radwin\DATA Browse. method is selected, if you wish to C:\Radwin\DATA2 Browse change this do so now. 11. When prompted click <<OK>> to create the Database Path. ΟK Cancel

- 12. In Start>Radwin Setup>Options>Item configuration you will now see your new Database.
- 13. To add your new logger click the Spanner & Hammer Icon



ZON1

PT1

Zone 1

00° 00' 0.00" N, 00° 00' 0.00" E

Transient Logger 1

eate Zone

Identity

tatistics | Transducer | Unit/Levels | Meter | Autocall | Memo | Auto Database E 📢

Enter the required identity and name for the Zone. If the zone already exists it will get updated.

Save Cancel

ZON1

Zone 1

14. Select Create a New Zone

15. Click <<Save>> and then <<Yes>>

- 16. Now select the new Zone and click the Hammer and Spanner Icon again.
- 17. Select Create New Location
- 18. Enter Location details for the logger
- 19. Select the logger tab

Location Logger Statistics Transduc	ter   Unit/Levels   Meter   Autocall   Memo   Auto Database E
Logger Type:	► Baud: 59600 ►
Date Manufactured:	11/01/1970 • Serial: 12345
Last Battery Change:	11/01/1970 ▼ Last Known Logger Configuration
Connection	
Connection Type:	GPRS
GSM Data Number:	
SMS Voice Number:	447860769613

20. Enter the logger details as follows:

Logger type 'Other Logger' from the drop down Serial number from the logger label Connection type - if it is not already, select GPRS from the drop down

21. Enter the SMS Voice number – be sure to enter the correct logger phone number in international format (+44 drop the zero) DOUBLE CHECK THIS NUMBER IS CORRECT This is required to match the data from the logger to the Database. The logger will have a number even if you have no SIM card fitted. 22. Select <<Save>> to create the new location.

23. Now click **E** to close this window

24. In Options>System configuration select the 'Autocall Ports' tab Hint: Click the Autocall Icon 🐨 🔤 to reduce the tab choices

Database System Startup Autocal Ports	Autocall Options Printing		
Enable Port:	Connection Type:	Default Baud:	<u> </u>
a COM1: RIM Virtual Serial Port v2 (COM	Modem	300	
a COM2: Standard Serial over Bluetooth	Modem	300	=
a COM3: HWM ComLog (COM3)	Modem	300	
a COM4: USB Serial Port (COM43)	SMS Modem	300	
a COM5: Standard Serial over Bluetooth	Modem	300	
🚓 соме	Modem	300	

- 25. Double click an unused port e.g. COM6
- 26. Click the box to enable the port
- 27. Choose 'GPRS from Folder' for the connection type.
- 28. Enter the folder path c:\HWM\IDT\DataUpload where the data will be imported from.
- 29. Click <<OK>> to save the change.

Configure Port	-		x
Select Enable determines ho	Port to use this port with Autocall. A Conne w this port is used to talk to loggers. The de	ction Type must be specified which fault baud rate is only important if this	^ +
Port Configuration			
Enable Port:	Connection Type:	Default Baud:	
🔽 СОМ6	GPRS from Folder	• 🔊 300 •	]
Folder Conliguration Folder:	c:\HWM\UDT\DataUpload	   OKCancel	

30. Click <<OK>> again to close system configuration.

- 31. Click to close Radwin Setup and return to Radwin View
- 32. Click Start>Radwin Autocall

33. Click Continue to start the automatic import process.

Ports Initialised	
Port Status	
Comm6	GPRS from Folder {c:\HWM\IDT\DataU
Autocall Manager	
🔽 Autocall Enable	🔲 Update Logger Time
🔲 Direct Autocall Enable	
	Continue Errors Abort

- 34. By default every 15 minutes Autocall will now import your data from the IDT folder into the Radwin Database. You can minimise this program and leave it running. You may wish to add this program to your Windows Startup routine
- 35. Once the files have been imported they will disappear from the folder (c:\HWM\IDT\DataUpload).

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36. In Radwin View, click the Open Icon

- 37. Click the Data File Tab
- 38. Click the '+' beside the zone and then the logger to display the imported files
- 39. Files of type 'M' are the short Fast Transient Secondary recordings; files of type 'A' are the normal Slow logged data.



40. Double click a file to display the data in the file, click OK when prompted.



Once you have configured Radwin as above you can repeat the setup and download process using the IDT and load the latest files using Radwin View. Radwin Autocall will take care of the import process for you automatically.

If you wish to speed up the importing process you can find this setting in System Configuration>Autocall options

You can download data from the SD card (option) using the SD Card Data Tab in the IDT in the same manner. If the logger has been recording for some time, it is not recommended to download all data due to the time it will take to download; choose a time window instead.

Dat	agate/GPRS,	/SMS/FT	P		_
Check for Data every:		vely.	30 Seconds 💌		
<u>ما</u> ا	T (Pasic mode) \/2.12	↔			~
	r (basic mode) v2.13			-	^
File	Tools Options	Help			+
Setup	Hardware Tests D	ata Collection	Calibration	SD Card	Data
	0.0	Download all av	ailable data		
	Download all available data     Download time period				
	-				
	Download start time	20 Mar 2017	16:12 28		
	Download end time	20 Mar 2017	16:12 28		
			100.	0%	
		Download data			

## 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.

## SIMPLIFIED DECLARATION OF CONFORMITY

This simplified EU declaration of conformity referred to in article 10(9) shall be provided as follows:

Hereby, HWM Ltd declares that the radio equipment type transceiver is in compliance with Directive 2014/53/EU.

The full text of the EU declaration of conformity is available at www.hwmglobal.com

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



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