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

Version 1.3

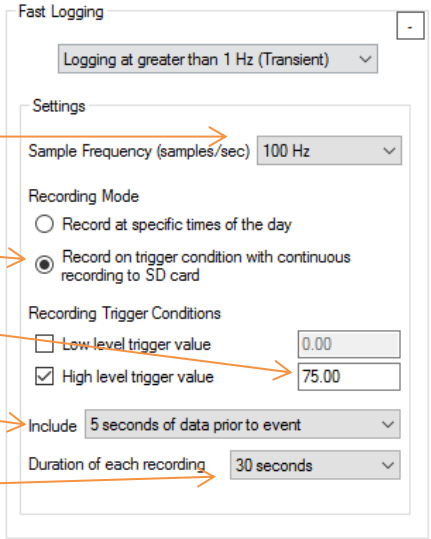
1. Download and install the 'Installation and Diagnostics Tool' and 'Radwin' from the HWM Website or from the CD-ROM (See main user guide for details on how to do this).

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

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.

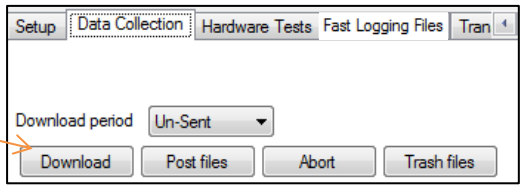
12. When successful programming has been confirmed, unplug the logger and deploy it on site. It will normally commence recording within 15 minutes unless you have specified a different Log Interval.

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

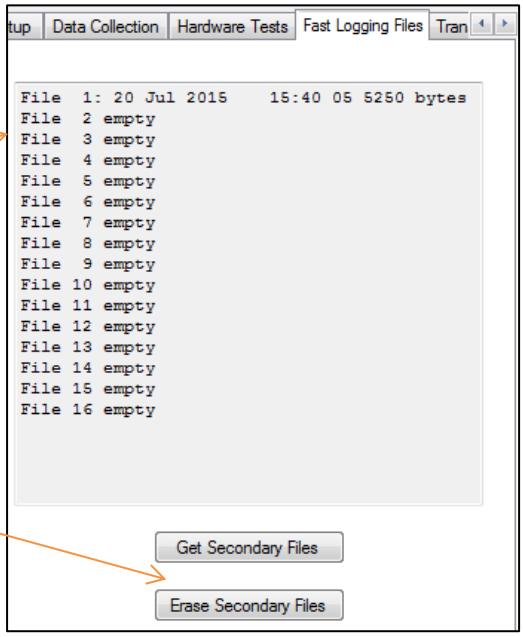
IMPORTANT: The SD card is cleared out when you click the Setup Logger button so be sure you have saved any data **before** restarting the logger.

How to download data and View in Radwin

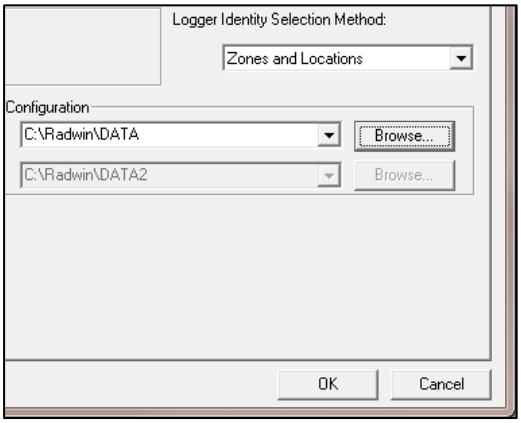
1. Connect the logger to the computer using the USB cable
2. Select the Data Collection tab and click <<Download>>
3. 15min logged data files will be placed in the folder c:\HWM\IDT\DataUpload



4. Select the Fast Logging Files tab
5. If there have been transient recordings made then you will see them in the file list. The most recent 16 transient recordings will be available for quick download, full data is always available from the SD card.
6. Click the <<Get Secondary Files>> button.
7. The transient files will be placed into the folder c:\HWM\IDT\DataUpload

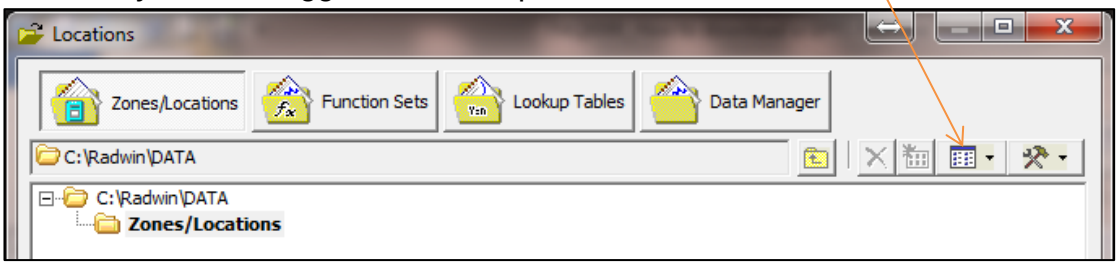


8. Click the <<Erase Secondary Files>> button if you wish to clear out the old recordings from the logger's temporary store and start again, this will not remove the files from the local folder or the SD card.
9. Launch Radwin View to create the logger in the Database
10. When prompted Click <<OK>> to create a new Database.
    By default a Zones & Locations method is selected, if you wish to change this do so now.
11. When prompted click <<OK>> to create the Database Path.



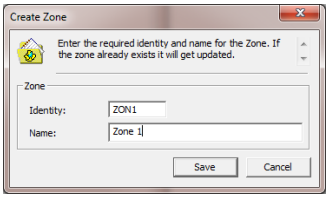
12. In Start>Radwin Setup>Options>Item configuration you will now see your new Database.

13. To add your new logger click the Spanner & Hammer Icon



14. Select Create a New Zone

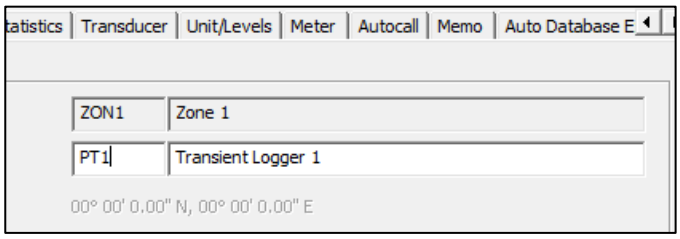
15. Click <<Save>> and then <<Yes>>



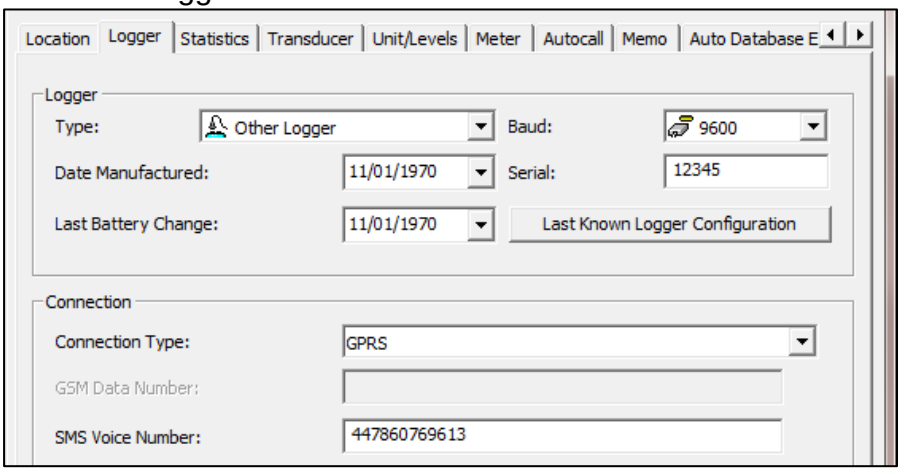
16. Now select the new Zone and click the Hammer and Spanner Icon again.

17. Select Create New Location

18. Enter Location details for the logger



19. Select the logger tab



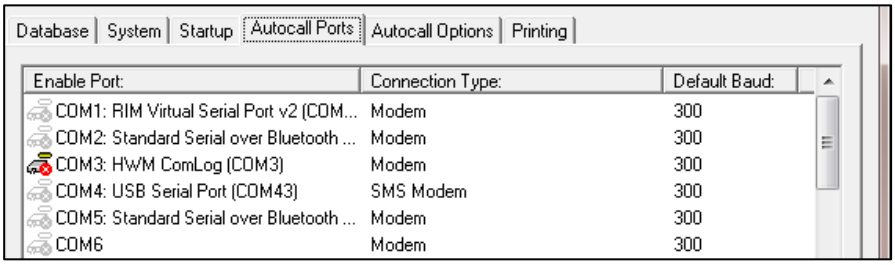
20. Enter the logger details as follows:
    Logger type 'Other Logger' from the drop down
    Serial number from the logger label
    Connection type - if it is not already, select GPRS from the drop down

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  to close this window

24. In Options>System configuration select the ‘Autocall Ports’ tab
    Hint: Click the Autocall Icon  to reduce the tab choices



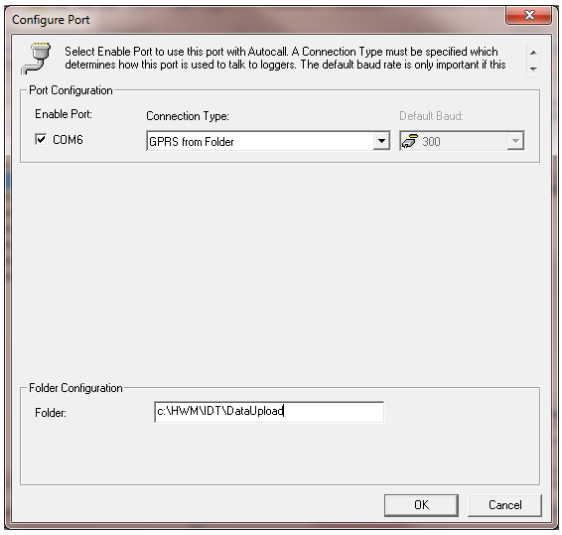
25. Double click an unused port e.g. COM6

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.

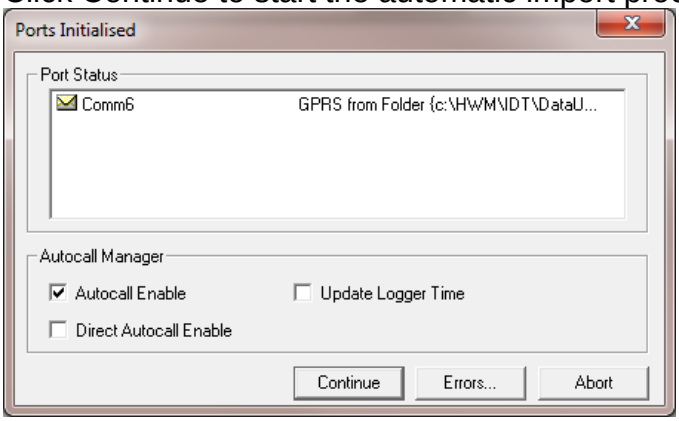


30. Click <<OK>> again to close system configuration.

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.



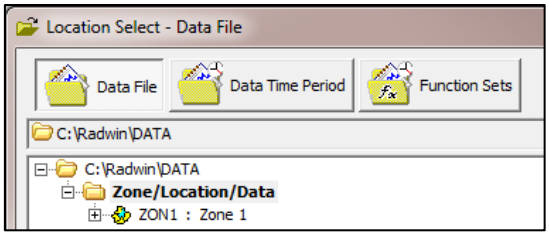
34. By default every 15 minutes Autocall will now import your data from the IDT folder into the Radwin Database. You can minimise this program and leave it running. You may wish to add this program to your Windows Startup routine

35. Once the files have been imported they will disappear from the folder (c:\HWM\IDT\DataUpload).

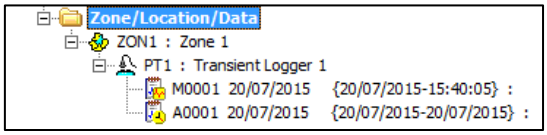
36. In Radwin View, click the Open Icon 

37. Click the Data File Tab

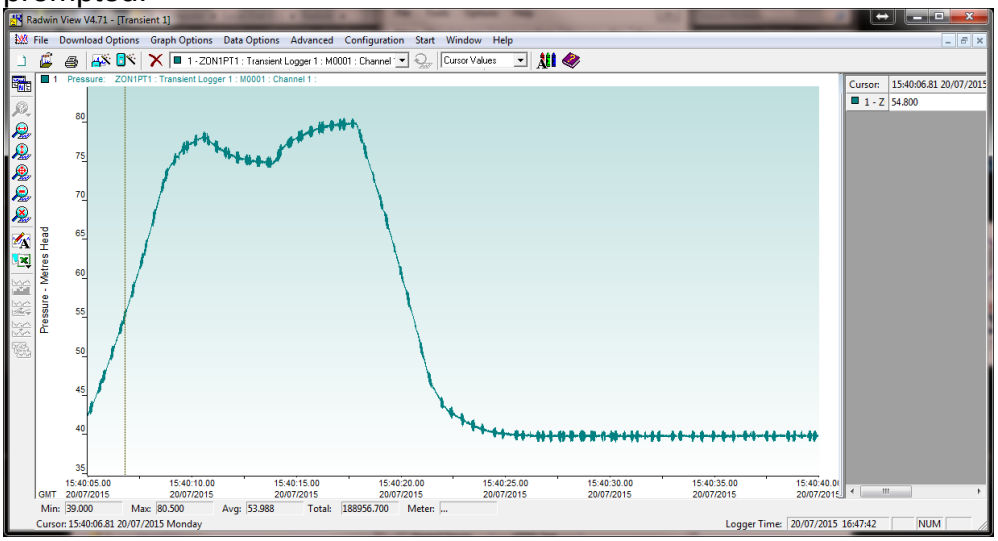
38. Click the '+' beside the zone and then the logger to display the imported files



39. Files of type 'M' are the short Fast Transient Secondary recordings; files of type 'A' are the normal Slow logged data.



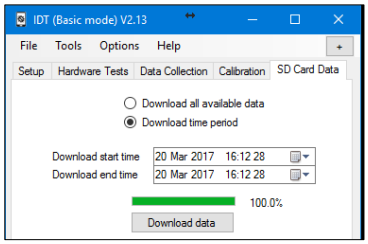
40. Double click a file to display the data in the file, click OK when prompted.



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.



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

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