

Title – LoLog R Quick start guide

Made By: AB\_11/08/14

(Issue 2)

## Check the parts supplied

- a) LoLog R radio data logger
- b) USB Wireless interface (PN:-553-002) + Antenna
- c) Radwin 4.67 or greater

## **Radwin installation**

- 1. Download the latest Radwin View Application from the HWM Website (www.hwm-water.com)
- 2. Double-Click the icon to start the Installation process;



H	WM		<b>—</b> ×
ι	o unzip all files to the specified folder, press the Unzip button. Unzip to dir: <u>CNTemp</u>	Browse	Unzip Chase

3. Now click <<Radwin>> from the Installer



4. The I/R Driver is normally installed automatically, however, in case it does not in step 0 below, please click the <<USB I/R Reader Driver>> after the main installation is complete.



5. When prompted by the InstallShield Wizard to install:



6. Read and agree the terms of the Licence agreement to continue:



7. Choose the Destination folder you wish to install to by clicking <<Change>>



eat /

or to accept the default installation (recommended) click <<Next>>

Note: Ensure that you choose a folder that you have read/write access to. Check with your IT team if you are not sure.



- and the I/R Driver installs...
- 8. Finally click <<Finish>> to close the InstallShield Wizard.

	Lestell Web		ed Canadada ed han a normatidy installed Rashin 65 < Such	-	ferritard			Readcom Software Installer	Radwin Radwin Lite	22
9.	Then c	lick <	< <exit>&gt;</exit>	to	close	the	Installer.	Halma Water Management Radcom Technologies U Coch House Llantanam Pak Way CWMBRAN UK NP44 3AW	USB 1/R Reader Driver	→ Exit

10. If you have installed from a downloaded file instead of the CD you will see the extra window below.
The Installation process has now finished so click <<OK>> to confirm.

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#### First time run of Radwin

Once you have installed Radwin you need to make some initial setup choices and configurations.

#### **Creating your first Database**

- 1. From the start menu, click <<All programs>> and find the program group "Radlog for Windows"\_\_\_\_\_
- Click <<Radlog for Windows>> to expand the group and then click <<RadcomView>>

You may wish to "Pin" the program to your taskbar for convenience. To do this, **right** click on the Radcom View icon and select "Pin to Taskbar" from the pop up menu. The program can now be conveniently started from the taskbar.



3. After the program starts you will be automatically prompted to set up a new database path

This is for local storage of configuration information and any data that you may directly download from the logger or from DataGate<sup>™</sup> after site installation.

figure: Advanced Database Path			work Server, or Internet based   atabase path (where the logger			
	Database					
	Database Location C Local PC or Network Server C Internet (FTP site)	ท	Logger Identity Selection Me Zones and Location	and a second		
	Local or Network Server Database Configuration					
	Database Path:	C:\Radwin\DATA	•	Browse		
	Mirror Database Path:	C:\Radwin\DATA2	7	Browse		

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### A note about Logger Identity Selection Method:-

A logger is identified with a single 7 digit reference ID. If you select Single Identity from the menu then you

use the full 7 digits how you like. E.g. account no, customer number, etc.

Logger	Identity Selection Method:	
	Zones and Locations	
	Zones and Locations Single Identity	

can

However, when installing a larger fleet of loggers, Radwin allows you to group individual logger Locations into larger Zones. This allows for geographic regions (Zones) to be easily indexed where large fleets are involved.

So, Locations refer to loggers

Zones contain Locations (loggers)

Many Zones may be created

Each Zone may contain many Locations (loggers)

For example, split a town up into Zones then split the Zones up into Locations and deploy loggers within each Zone.

If you choose this (default) option you will be prompted (later on) to decide how the 7 digits are allocated. E.g. ZZ/LLLLL means you can have up to 99 zones with 99,999 loggers in each zone, or ZZZ/LLLL gives 999 zones with 9,999 loggers in each and so on.

In this way you can develop an indexing method to allow you to quickly find sites you wish to examine.

Database - Select the database is Local or o 4. From the Logger Identity Selection Method, Database choose the option as described above. Cocal PC o - - - - -Deskto Librarie Comput If you wish to

change to location of the folder where the database is stored, click <<Browse...>>

Then navigate to the desired folder and click <<Open>> to choose the ←folder.

When prompted below click <<Yes>> to confirm the folder choice.

		12.11		
?	a database was		elected folder. Do you wi	ish to create
-				
			Yes	No

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### 5. Now click <<OK>> to create the database.

Database Identity Format	t	2222	
OK to create the databas	se path:		
C:\Radwin\DATA	4		
WARNING: The Identity	Format For This E	atabase Cann	ot
Be Changed After Select	ting OK.		
	Г	ок 1	Cancel

If you chose *Zones and Locations* in step 4, chose your format for the ID number. The default is the UK postcode format, e.g. AB12 3CD

Then click <<OK>> to continue.

and the

Note: The Database format CANNOT be changed from this point. If you need to change it later you will need to delete the \DATA folder and start again.

If you have upgraded to this edition of Radwin from an earlier version, then the database format that was chosen in the previous edition will be maintained.

# Setting up the communications

- 1. Plug in the USB receiver (with the antenna attached) into your PC. Check the COM port number via Device Manager and change it to a port number or 32 or less (Ports -> Port Settings -> Advanced).
- Open Radwin and set the comms port for the USB Receiver in Configuration > Advanced Configuration > Radwin All > Manual Call tab (when you plug in the Receiver to your PC USB port you should be able to identify it in the Drop down for USB Transceiver Port -

	System C	onfiguration : Radwin All	×
Configure: Advanced Radwin All Manual Call View Autocall Export Alarm Programm Alarm Receiver Remote Autocall Remote Alarm R	Manual Call - Select the directly to the PC, the Di	comm ports to be used for Manual Data Downloads. For loggers connected rect RS232 Port must be specified that is used to connect the logger to the PC Startup Transducers/Sensors/Units Statistics Manual Call Autoc: COM4 COM4 COM2 COM2 COM2 COM3: USB Serial Port (COM3) COM3: USB Serial Port (COM3)	_
	Help - Find Available Ports	OK Cancel	



# Communicating with the LoLog R and configuration

1. Slide a magnet in a swiping motion over the label of a new LoLog R to 'wake it up' out of transport 'sleep' mode .



2. In Radwin View select Download Options . Advanced Download / Upload / Utilites



3. At the Advanced Download / Upload / Utilities screen select Type : LoLog R from the drop down, Connection type - USB Transceiver , the correct Com port and a baud rate of 115200. -

	Advanced Download/Upload/Utilities
Logger Zone Location Type: Connection: Number:	Lolog R    Baud:
Download/Upload Uti	ilities   Signal
C Enter New Param	ieters .
Oownload Parame	eter Settings For Last Recording
C Download Parame	eter Settings And All Recorded Data
C Download Last N	umber Of Hours Data: 6 🔽
C Download Logger	r Memory From Address: 0 Of Length: 0
	OK Cancel



- 4. Select OK
- 5. The Software will locate all LoLog R's in the vicinity by Serial number -

Configure Logger					
Select a logg	er from the list to cor	nfigure.			
Identity:	Name:	Number:	dBm	FW	
		00242072	-41	01.04	
		00242066	-64	01.04	
		00225952	-54	01.04	
		OK		Abort	

- 6. Highlight the serial number of the logger you want to configure then select OK (Stated on the label)
- 7. If prompted to upgrade the firmware at this step select 'Yes'.
- 8. The software will then download the logger configuration

	Downloading	×
0242072:	Downloading Header 2	
		Abort

9. Once downloaded you will see the screen below -

		Lolog R - v1.04	×
Lolog R - v1.04 Identity Logging Main Recording Display Configuration Status	Identity: Zone: Location: Time Logger Time:	CF32 9Q8 10:34:48 06/08/2014 Error: -28 Minutes	
	Comments: Name: Site Info:	Field Test 1 LoLogR at Rectory Close	
	Load	Save Upload	Cancel

10. Select Identity and Edit the zone and location details to suit your database -

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Repeated to the second se	Made By: AB_11/08/14	(Issue 2)

Identity: Zone: Location:	CF32 9Q8	
Comments: Name: Site Info:	Field Test 1	-28 Minutes
load		Upload Cancel
	Zone: Location: Time Logger Time: Comments: Name:	Zone:       CF32         Location:       9QB         Time       Logger Time:         Logger Time:       10:34:48 06/08/2014 Error:         Comments:       Field Test 1         Name:       Field Test 1         Site Info:       LoLogR at Rectory Close

### 11. Select Main recording -

Ensure the start time and date is before current to ensure the logger starts when it is uploaded Enter sample rate (15 minutes is normal), and ensure channels are enabled by ticking the boxes, as required -

Lolog R - v1.04 - Main Recording				
Lolog R - v1.04 Logging Main Recording Display Configuration Status	Record         Record Start Time:         11:50:00         06/08/2014         Record Stop Time:         00:00:00         30/11/1999         Sample Rate:         00:15:00			
	Enable Stop       C Block Memory       C Cyclic Memory         Logging Mode	<b>•</b>		
	Load Save Upload	Cancel		



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12. Select Display Configuration –

Select Channel 1 from the drop down (Pressure Channel – if fitted) select units per pulse = 0.1

Lolog R - v1.04 - Display Configuration			
<ul> <li>Lolog R - v1.04</li> <li>Identity</li> <li>Logging</li> <li>Main Recording</li> <li>Display Configuration</li> <li>Status</li> </ul>	Display Data Calibration Channel: Channel 01 Type: Analogue Units Per Pulse: 0.100		
J	Load Save Upload	Cancel	

Select Channel 2 from the drop down (Flow Channel -if fitted) and select units per pulse to suit the sensor/meter to which the flow channel is connected (usually 1 or 10 or 100 litres per pulse). Apply the current meter reading if required.

A Lolog R - v1.04   I Identity   ▲ Logging   B Main Recording   B Display Configuration   B Status   Display Data Calibration Channel 02 Type: Digital (Flow) Uitres per Pulse: 10.000 Meter Reading: 215400 Cubic Metres
Load Save Upload Cancel



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13. Select Upload –

At the Upload screen check the Main recording and Restart , General parameters, and Update logger time boxes and select  $\,$  OK  $\,-\,$ 

	Upload Parameters	×
Logger Zone, CF32 Location 9QB Type: Connection: Number:	Lolog R USB Transceiver	•
Main Recording and Rev General Parameters     Update Logger Time     Stop Main Recording	start	
Update Logger Time as:	PC Time	
	OK Cance	4

14. The configuration will be uploaded to the logger -



15. At the following screen the logger configuration is now complete and the logger is recording –

	Advanced Down	load/Upload/Utilities	×
	CF32 9QB USB Transceiver	Baud:	ଟ୍ଟି 115200 💌 ଟ୍ଟି COM4 💌
Download/Upload			
<ul> <li>Enter New Par</li> <li>Download Para</li> </ul>	ameters ameter Settings For Last Record	ding	
C Download Para	ameter Settings And All Record	ed Data	
C Download Las	t Number Of Hours Data:	6 👻	
C Download Log	ger Memory From Address;	0 Of Length:	0
			)K Cancel

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16. If you have a pressure logger use the Utilities tab and Re-Zero the loggers transducer -

A	dvanced Download/Upload,	/Utilities	×
Logger Zone CF32 Location 9QB Type: Connection: Number:	Lolog R USB Transceiver	Baud: Port:	୍ଦି 115200 <b>▼</b> ଟି COM4 <b>▼</b>
Download/Upload Utilities	Signal		
C Instantaneous Value	C GPRS Test		
Calibrate Logger			
Re-Zero Logger			
C Check Calibration			
C Enter Calibration values			
			OK Cancel

17. The logger can now be installed ad it will record data for the the channels that are enabled and connected.

# Downloading data from the LoLog R

- 1. To download the logger connect the USB Wireless Interface to your PC and open Radwin View connect to the logger as you did when configuring it.
- 2. Select the Advanced Download/Upload /Utilities function and the 'Download Parameter settings and all recorded data feature.' -

	Advanced Downlo	ad/Upload/U	tilities	×
Logger Zone Location				
Туре:	🕰 Lolog R	-	Baud:	🔊 115200 💌
Connection:	USB Transceiver	•	Port:	<i>🞜</i> СОМ16  🚽
Number:			·	
Download/Upload Utilities	Signal			
C Enter New Parameters				
C Download Parameter S	ettings For Last Recordir	ng		
Ownload Parameter S	ettings And All Recorded	l Data		
C Download Last Numbe	r Of Hours Data:	6 👻		
C Download Logger Merr	ory From Address:	0 0	)f Length:	0
			OK	Cancel



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Then select OK to start the download -

	Downloading	×
0242072:	Downloading Header 2	
		Abort

First the logger details will download (above) followed by the Data -

	Downloading	×
0242072:	Downloading Data	
		Abort

If you did not use this computer to configure the logger you will see this message -



Select 'Yes' to create the loggers details in the Radwin database so the data can be stored -

	Downloaded Data
_ Identity	
Zone:	CF32
Location:	9QB
	Change Identity
Filename:	0001001
Comment:	
	Transducers Parameters
	Save Cancel

If required add a note as to the data which is being downloaded and select 'Save' and you will see a graph of the downloaded data –



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Once you have closed the graph or the session and you want to retrieve the graph again open Radwin View and select the Open Data File icon –



Select 'Data File' and then locate the logger by its Zone and location ID and click on the data file - (in the example below it is the data file M000 1 08/08/14 but all data files are identified by the date of download and the data date range)

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		3 4 1 1 1 1

Highlight the data file and click to open the graph of the data for viewing again.

### **Document History:**

Edition	Date of Issue	Modification	Notes
1st	06/08/14	RELEASE	
2nd	11/08/14	Scope updated	