

# GMS310

## Data Manager

User Guide Issue 2.4

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## GMS310 Data Manager



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### 1. Introduction

This document provides an overview of the installation and use of the GMS310 Data Manager software application.

The GMS310 Data Manager is used for the retrieval (download) and deletion of data files from the GMS310 Core Gamma Logger Instrument and subsequent analysis and export of sample data.

This version of this User Guide refers to version '2.3.0' of the Data Manager software application and supersedes all previous versions.

Previous versions of this software application will be upgraded by installing this version.

## 2. System Requirements

The GMS310 Data Manager requires the following minimum system:

- Windows XP (Service pack 3 or higher)
- 1GB RAM
- 250MB Disk space
- 1024 x 768 Screen Resolution
- USB port



## 3. Installation

The GMS310 Data Manager is supplied on an installation CD.

Once the CD has been inserted into the PC you will be prompted to run the 'JCS Installer'. The installation CD comes preloaded with an 'autoplay' file that will instruct Windows to prompt you to install the application. If you are not prompted automatically, run the 'setup.exe' on the CD to start the installation process.



During the installation process several sub-folders are created under the root 'Program Files\*' directory, as per the following structure:

Program Files \*

o JCS

- GMS310 Data Manager
  - Downloads\*\*
    - Downloaded data files
    - Errors
      - Data files that 'error' during the download process
      - Exported Data\*\*
        - Exported data files ('XLS', 'CSV' and 'PDF')

\*Dependant on the PC environment (i.e. 32 or 64bit)

\*\*Previous versions of the software application installed 'Uploads' and 'Extracts' sub-folders, these are replaced by 'Downloads' and 'Exported Data' as part of the upgrade to this version. All previous data is kept and moved to the new folders.





## 4. Using the GMS310 Data Manager

#### 4.1 Launching the GMS310 Data Manager

The GMS310 Data Manager can be launched as usual within Windows environment from several places, including the desktop icon, as created during the installation process.



The main screen allows the following actions to be carried out:

- 'Download Data' launches the Download Data screen
- 'Manage Data' launches the Manage Data screen
- 'User Guide' opens the GMS310 Instrument User Guide
- 'Software Help' opens the GMS310 Data Manager User Guide
- JCS logo hyperlinks to the JCS website www.johncaunt.com



#### 4.2 Download Data

Selecting 'Download Data' from the main screen will open the 'Download Data' screen as shown below:

File Name         S/No.         Date Logged         Date Downloaded         Downloade           A011012A.CSV         0112         11/01/2012 12:00:00         17/03/2013 20:30:26         Downloade           A0110110.CSV         0111         10/01/2012 12:02:20         17/03/2013 20:31:04         Downloade           A011011N.CSV         0111         10/01/2012 12:02:10         17/03/2013 20:31:04         Downloade           A011011M.CSV         0111         10/01/2012 12:02:00         17/03/2013 20:31:04         Downloade           A011011M.CSV         0111         10/01/2012 12:01:50         17/03/2013 20:31:04         Downloade           A011011K.CSV         0111         10/01/2012 12:01:40         17/03/2013 20:31:04         Downloade           A011011K.CSV         0111         10/01/2012 12:01:30         17/03/2013 20:31:04         Downloade           A011011L.CSV         0111         10/01/2012 12:01:30         17/03/2013 20:31:04         Downloade           A011011L.CSV         0111         10/01/2012 12:01:20         17/03/2013 20:31:04         Downloade           A011011L.CSV         0111         10/01/2012 12:00:50         17/03/2013 20:31:04         Downloade           A011011L.CSV         0111         10/01/2012 12:00:50         17/03/2013 20:31:04         Downloade	Select All			Select Files Not Downlo	paded
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#### 4.3 Connecting to the Instrument

Once the Instrument has been connected to the PC (via. USB port) the GMS310 Data Manager makes contact by using the 'Connect to Instrument' button, as below:

🌲 GM5310 Data Manager - Download Data					
Connect to Instrument					
Select All					

If no data files can be detected by the GMS310 Data Manager then the following message will appear:

Instrument Connection X							
No GMS310 data files have been detected.							
Please ensure your Instrument is properly connected and retry.							
ΟΚ							

To confirm which external drive/port you are connected to, press the 'Shift' and ' $\sim$ ' keys together and the following message will appear:



Whilst connected to the instrument (Connecting, Downloading or Deleting) the following message may appear when working with large volumes of data files:

Processing files, please do n	not disconnect Instrument
60%	)%





#### 4.4 Downloading and Deleting data files

Once connected to the instrument, the GMS310 Data Manager allows for data files to be downloaded to the PC and permanently deleted from the instrument.

You can select and download and delete one, many or all the data files on the instrument.

The Download Data screen shows all data files held on the instrument together with the current 'Download Status' for each file.

Once files have been selected, both the 'Download to PC' and the 'Delete from Instrument' buttons are enabled for use.

#### 4.4.1 Downloading data files

Data files are downloaded from the instrument to the PC using the 'Download to PC' button.

On completion of the download process, the following message appears:

Download Completed					
File download completed					
1 file(s) have been successfully downloaded from the Instrument					

Should there be a problem with one or more of the files during the download process then the 'error' files will be downloaded to the 'Error' folder and the following message will appear:





#### 4.4.2 Deleting data files

Data files are deleted (permanently) from the instrument using the 'Delete from Instrument' button.

Before the deletion process starts the following warning message appears:

Confirm Deletion X									
	Files selected for deletion will be permanently removed from the Instrument and deleted Are you sure you wish to continue?								
	Select 'OK' to confirm deletion or 'Cancel' to cancel.								
	<u>O</u> K								

On completion of the deletion process, the following message will appear:

Deletion Completed X					
File deletion completed					
1 files(s) have been permanently deleted from the Instrument					
QK					



#### 4.5 Manage Data

The Manage Data screen is used for the selection, deletion and analysis of Sample Data.

Sample I	Data	All Th	norium (49)	3-667KeV)	Potass	ium (1241-	1596KeV)	Uraniun	(1596-20)	24KeV)	pectrum (90-2100keV)
Load	Clear	Sa *	Date	Time	Serial	Sampl	Thoriu	Potas	Uraniu	Spectr	GMS310 [Serial No. 0111]
		1	10/01/	12:00:00	0111	10	15	10	15	100	GUODIO [SCHUHOLOIII]
Select	t All	2	10/01/	12:00:10	0111	10	20	25	20	110	Sample Start: 10/01/2012 12:00:00
		3	10/01/	12:00:20	0111	10	30	45	25	120	
Serial No:0	0111	4	10/01/	12:00:30	0111	10	30	40	35	150	
🖹 🔽 Date: 🛛	10/01/2012	5	10/01/	12:00:40	0111	10	40	50	45	180	360
- 🔽 12:	:02:20	6	10/01/	12:00:50	0111	10	60	80	75	260	$\land$
	:02:10	7	10/01/	12:01:00	0111	10	60	70	90	300	330
📝 12:	:02:00	8	10/01/	12:01:10	0111	10	65	80	100	350	
··· 🔽 12:	:01:50	9	10/01/	12:01:20	0111	10	60	70	90	300	300
- 🔽 12:	:01:40	10	10/01/	12:01:30	0111	10	60	80	75	260	
- 📝 12:	:01:30	11	10/01/	12:01:40	0111	10	60	80	75	260	270
🚺 12:	:01:20	12	10/01/	12:01:50	0111	10	40	50	45	180	
	:01:10	13	10/01/	12:02:00	0111	10	40	40	35	150	240
📝 12:	:01:00	14	10/01/	12:02:10	0111	10	30	20	25	110	
- 🔽 12:	:00:50	15	10/01/	12:02:20	0111	10	15	10	15	100	210
🗸 12:	:00:40	4									
	:00:30										180
📝 12:	:00:20										
- 🔽 12:	:00:10										150
🚺 12:	:00:00										
🗄 📄 Date: (	09/01/2012										120
Serial No:0	0112										
											90
											60
											30
											0 +
											1 2 3 4 5 6 7 8 9 10 11 12 13
											Sample
											🔍 Thorium (493-667KeV) 🍋 Potassium (1241-1596KeV) 🍋 Uranium (1596-2024KeV) 🍋 Spectrum (90-2100keV)

Once loaded, the sample data is presented in both the 'Grid Data' and 'Chart' areas for analysis.

Included within the data shown is the following:

- Sample No.
  - This is generated by the application and relates to the number of samples selected and loaded.
- Date
  - o Date the sample was taken
- Time
  - Time the sample was taken
- Sample Time (s)
  - o Sample duration in seconds
- Regions Of Interest (ROI)
  - Data recorded within each ROI
- Spectrum

   Data recorded captured across the total Spectrum



#### 4.5.1 Selecting and Loading Sample Data

Sample data can be selected for loading, clearing and deleting using the 'Sample Data' tree view and the 'Load' & 'Clear' buttons, as shown below:

💄 GM5310 Data Manager - Manage Data 👘						
Sample D						
Load						
Select A						
🖃 🔳 Serial No:01						
🕀 📝 Date: 10						
···· 🚺 12:0						

The sample data is shown in instrument Serial No. order, by date and then sample.

The 'Load' button becomes enabled once a sample (or samples) has been selected in the tree view; the 'Clear' button becomes available once a sample has been loaded into the 'Grid Data' & 'Chart' areas.

Pressing 'Load' will load the sample data into the 'Grid Data' and 'Chart' areas for analysis and pressing 'Clear' will empty/clear the sample data from the 'Grid Data' and 'Chart' areas.

💄 GM5310 Data Manager - Manage Data	x
Sample Data	
Load Clear	
Select All	
4	







#### 4.5.2 Deleting Sample Data

The 'Delete Selected Samples' option is made available by using the mouse right-click option in the 'Sample Data' tree view, as shown below:

💄 GM5310 Data Manager - Manage Data									
Sample	Data								
Load	Clear								
Selec	t All								
Serial No:	0111 10/01/2012								
	2:02:20 2:02:1	Delete Selected Samples							
1	2.02.00								

Sample data can be deleted from the application, data records are sent to the PC's recycle bin.

#### 4.5.3 Analysing Sample Data

The information shown relates to the data collected by the GMS310 Core Gamma Logger.

Once loaded, the sample data is shown in both the 'Grid Data' and 'Chart' areas.

The 'Grid Data' area allows for the data to be sorted and filtered per ROI by using the column header.

All	Thorium	n (493-667KeV)	Potassiu	um <b>(</b> 1241-	-1596KeV) Uraniu	um (1596-2024KeV) S	pectrum (90-2100keV)	
Sample No. 🔺		Date	Time	Serial	Sample Time (S)	Thorium (493-667KeV)	Potassium (1241-1596KeV)	
1		10/01/2012	12:00:00	0111	10	15	10	
	2	10/01/2012	12:00:10	0111	10	20	25	
	3	3 10/01/2012		0111	10	30	45	
	4 10/01/2012		12:00:30	0111	10	30	40	

The 'Chart' area allows the user to zoom into the chart for closer analysis of the data using the mouse scroll button or the 'shift key' & mouse left click – the Sample Number can also be moved using the Chart horizontal scroll bar when zoomed in.

The data recorded in each ROI can be shown by selecting the appropriate 'tab', the 'All' tab shows the data for all ROIs at the same time.



#### The 'All' Tab shows data for all ROIs on the same Grid/Chart:



Each tab in turn shows data from each ROI (here Thorium):

🃤 GM5310 I	Data Manager - I	Manage Dat	а					
Sam	ple Data	All The	rium (493-667K	eV) Potas	sium (12	41-1596KeV) Ura	inium (1596-2024KeV) Sp	ectrum (90-2100keV)
Load	Clear	Sam 🔺	Date	Time	Serial	Sample Time (S)	Thorium (493-667KeV)	GMS310 [Serial No. 0111]
		1	10/01/2012	12:00:00	0111	10	15	Course Shart 10/01/2012 12:00:00
Se	lect All	2	10/01/2012	12:00:10	0111	10	20	Sample Start: 10/01/2012 12:00:00
		3	10/01/2012	12:00:20	0111	10	30	70
Serial r	10:0111	4	10/01/2012	12:00:30	0111	10	30	
Da	te: 10/01/2012	5	10/01/2012	12:00:40	0111	10	40	65
	12:02:20	6	10/01/2012	12:00:50	0111	10	60	
	12:02:10	7	10/01/2012	12:01:00	0111	10	60	60
	12:02:00	8	10/01/2012	12:01:10	0111	10	65	
	12:01:50	9	10/01/2012	12:01:20	0111	10	60	55
- 7	12:01:40	10	10/01/2012	12:01:30	0111	10	60	
	12:01:30	11	10/01/2012	12:01:40	0111	10	60	50 -
📝	12:01:20	12	10/01/2012	12:01:50	0111	10	40	
🔽	12:01:10	13	10/01/2012	12:02:00	0111	10	40	45
	12:01:00	14	10/01/2012	12:02:10	0111	10	30	
🗹	12:00:50	15	10/01/2012	12:02:20	0111	10	15	
	12:00:40	4						
💟	12:00:30							¥ 33
	12:00:20							30
	12:00:10							
	12:00:00							25
👜 🥅 Da'	te: 09/01/2012							
🗄 👘 Serial N	lo:0112							20
								15
								10 -
								5 -
								Sample
								C. Thorium (493-667KeV)
		_					V	1



The 'Grid Data' and 'Chart' areas can be closed or widened to focus in on the data as required using the grab/splitter bars as shown below:









#### Just Chart area:



The 'Chart' background colour can be changed by using the mouse right-click option when in the 'Chart' area:





#### 4.5.4 Exporting Sample Data

Data can be exported from both the 'Grid Data' and the 'Chart' areas separately.

The export options are selected using the mouse right-click function. You can either export straight out to a file or export and open using the PC's default application.

*	Date	Time	Serial	Sa	ele	ele	ele	Sp			GMS310 [Ser
1	10	12	0121	10	10	0	10	100			
2	10	12	Exp	oort Da	ata		•	120			Sample Start: 10/1
3	10	12	Exp	oort ar	nd Ope	n Data	• •		Data Only	•	'XLS' file format
4	10	12	0121	10	30	25	30		Full	•	CSVI file format
5	10	12	0121	10	40	30	50	100	1011		CSV me format



The 'Grid Data' area offers two options as to what can be exported, 'Data Only' and 'Full':

- Data Only
  - o ROI sample data
- Full
  - All information recorded by the instrument during the sample reading

Data within 'Grid Data' area exports out to 'XLS' (native to Microsoft Excel) and 'CSV' file formats.

The 'Chart' area exports out to the 'PDF' file format.





Exported data files are saved to and stored in the 'Exported Data' sub folder with a unique date/time stamp, as shown below:

Local Disk (C:) 🕨 Pro	ogram Files (x86)	► JCS ►	GMS310 Data Manag	ger 🕨 Exported Data
ry 🔻 Share with		New folde	r	
	Name B GMS310_EXF GMS310_EXF GMS310_EXF	PORT_CHAI PORT_GRID PORT_GRID	^ RT_20120708225522.p _20120708225513.csv _20120708225517.xls	pdf ,

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