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1. Introduction

This guide details the operations needed to **Connect** and **Download Data** from itmsoil Instruments Data Acquisition System (DAS). This is done by using the datalogger support software **Loggernet software (D2-1.1)**. Data is stored within the dataloggers memory, when the memory limit is reached the oldest readings will start to be overwritten. Routinely connecting and downloading readings from the datalogger to a PC will ensure the readings are backed up.

2. Direct Connection

2.1 Hardware

On the CR800 and CR1000 there are two 9 pin ports that can be used for connecting into the data logger. These are the RS232 and CS I/O port (See **Figure 1.**)



Figure 1.CS I/O and RS-232 9 pin ports shown on a CR800

Note: Some loggers will already have other peripherals attached to these ports eg. A Modem or AVW200. If this is true ideally it is advised not to use these ports. If no other option but to remove one of the connections make sure they are reconnected in the same way. Removing some peripherals may mean that it is not possible for live readings to be taken.





2.1.1 Hardware for connecting using the RS232 Port

For connection using the RS232 port a male to female 9 pin RS232 serial cable is required (See **Figure 2.**).



Figure 2.RS232 Cable

Note: Most PCs and Laptops will have a 9 pin VGA output; this is <u>not</u> suitable for connecting the Logger via a RS232 Serial cable to.

This then needs to be connected to a PC or Laptop. Not all modern laptops and PCs will have the necessary serial output. To solve this a USB to RS232 cable (D1-3.11) can be used (See **Figure 3**.). This will require drivers to be installed for the cable to be recognised, a CD containing the drivers will accompany the cable.





Figure 3.USB to RS232 Cable

2.1.2 Hardware for connecting using the CS I/O Port

For connecting using the CS I/O port of the data logger a special cable or adapter is required (See **Figure 4.& 5.**)



Figure 4.RS232 to CS I/O Cable

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Figure 5.RS232 to CS I/O Adapter

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2.2 Loggernet setup

		K _ D	×
	Main	Setup	
	Program	Connect	
-100	Data	Status Monitor	
<u>loggerNet</u>	Tools	🔅 Task Master	
	Utilities		
	Favorites		

Figure 6.Highlight "Main" then select "Setup"

Note: The following screen is the "EZ View" which guides through the setup. If your view is not the same please select the icon in the top right of the screen:

EZ View

The New Network	-telp	
Add Pelete Edit	Repare -	🔀 Std View
Ē	Datalogger Information Datalogger Name: CP11000_11520_CS10 Datalogger Inper: CP11000 Unsupported Connection Type This datalogger has a configuration that is not supported in the E2View. The datalogger has ablings on the same PakBus Port. Switch to the Standard View to edit this datalogger.	

Figure 7.Select "Add"







Figure 8.Select "Next"

rogress	-Datalogger Type and Name	
Introduction		
Communication Setup		Select the datalogger type and enter a name for your datalogger.
Datalogger Settings	CR510TD	Datalogger Name
Setup Summary		CR800Series
Communication Test	CBZX	
Datalogger Clock		Clink Martha continue
Send Program	CB800Series	Click Next to continue.
Data Files		
Scheduled Collection	CR9000	
Wizard Complete	C/13000	

Figure 9.Select the logger type and assign a name.

This will either be a CR800 or CR1000. If unsure please either physically inspect the data logging system or view the wiring diagram to identify your logger type.



rogress	Connection Type
Introduction	Select the mode of communication that will be used for this datalogger.
Communication Setup	
Datalogger Settings	Direct Connect A direct connection consists of a datalogger with an RS-232 port connected to the serial port on the computer. If the datalogger has
Setup Summary	RF95/RF3☆ only a CS 1/0 port, then the connection is RF4☆ (Non-PakBus) through an appropriate interface device (e.g.
Communication Test	SC929 9-pin cable or SC32A/SC32B Optically Isolated RS-232 Interface).
Datalogger Clock	
Send Program	
Data Files	
Scheduled Collection	
Wizard Complete	

Figure 10.Select the connection type. Select "Next".

EZSetup Wizard - CR800Series	(CR800Series)
Progress	COM Port Selection
Introduction	
Communication Setup	COM Port Communications Port (COM1) Select the computer's COM Port where the datalogger is attached.
Datalogger Settings	Communications Port (COM1)
Setup Summary	
Communication Test	COM Port Communication Delay If using an SC-IRDA device, you may need to have a delay before communication is attempted on the
Datalogger Clock	COM port. This will allow the PC to load the appropriate drivers. (2 to 4
Send Program	seconds should be enough)
Data Files	
Scheduled Collection	
Wizard Complete	
	Previous Next Finish Cancel COM Port Help

Figure 11.Select the "Com Port" the logger is connected to.

Note: If the cable is correctly attached to the PC and the driver has been installed correctly it will be listed in the drop down box. If the cable is not shown please use "Device Manager" in windows to identify the correct Com port or diagnose any issues. Once this has been done close and then reopen the Setup window and the EZSetup wizard.

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Progress	Datalogger Settings	
Introduction	Baud Rate	Enter the baud rate that will be used in communicating
Communication Setup	115200 • 1200	with the datalogger. Note: The max baud rate for C32A interfaces is 19,200 bps. The max for SC929 is 31,400 bps.
Datalogger Settings	9600 19200	A unique PakBus address is used to identify the
Setup Summary	38400 57600 115200	detalogger in the PakBus network. Enter the PakBus address that was set on the datalogger. Valid range is 1-4094. Suggested range is 1-3999.
Communication Test	Security Code	If a security code is set on the datalogger, it must be
Datalogger Clock	0	entered here for communication and data collection to occur. O means security will not be used.
Send Program	Extra Response Time	If the datalogger requires extra time to respond, enter
Data Files	00 seconds 🚔	the extra response time.
Scheduled Collection	Max Time On-Line	Because some links are costly, it may be desired to
Wizard Complete	00 h 00 m 00 s 🔶	nave the connection closed automatically. Enter the maximum time for a connection to stay online. O means stay online until the user disconnects.
	Previous Nevt	Finish Cancel Settings Help

Figure 12.Select the applicable baud rate.

This may differ depending on the setup of the logger. Please refer to the wiring diagram as the ports on the logger will have their baud rates labelled on them.

Progress	Communication Setup Summary
Introduction	The following is a summary of the datalogger setup.
Communication Setup Datalogger Settings	Datalogger Information Datalogger Name: CR800Series Datalogger Tune: CR800Series
Setup Summary	Direct Connect Connection
Communication Test	Datalogger Settings
Datalogger Clock	Baud Rate: 115200 PakBus Address: 1
Send Program	Extra Response Time: Os Max Time Online: Oh Om Os
Data Files	
Scheduled Collection	
Wizard Complete	

Figure 13.Select "Finish"

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3. Accessing Data from a Data logger

Once the above setup is completed under the main menu select "Connect" (See **Figure 14**.)



Figure 14.Opening the Connect Screen

On the Connect Screen highlight the logger that was setup and then select "Connect" (See **Figure 15**.)



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Connect Screen: CR800Series (CR800S	eries)	
File Edit View Datalogger Help		
Connect Collect Now Custom	Station Status File Control Num Display Gra	phs Ports & Flags
Stations	Table Monitor: Passive Monitoring	Clocks Adjusted Server Date/Time
	Field Value	Station Date/Time
		Chec <u>k</u> Set
		Program 2177-273(V0.00).CR8
		<u>S</u> end <u>R</u> etrieve
		Notes
List Alphabetically		
	Stop Interval 00 m 01 s 💌	-

Figure 15. Highlight the logger and select "Connect"



3.1 Viewing current data

Once connected it is possible to view the last readings taken and change some of the logger parameters. This is done by accessing the "Public table" from the drop down menu on the connect screen (see Figure 16.).

anor constructions of	terom i pideou pieros ute coueror i	Num Display graphs Fight & Flags		
hons	Table Monitor: Real Time Monito	ína		Clocks
7R800Series	Public	 Show Unit 	5	Adjusted Server Date/Time
A				22/12/2011 15:42:03
	Field	Value		Station Date/Time
В	RecNum	8		22/12/2011 15:42:03
	TimeStamp	22/12/2011 15:41:51		Churk Cat
	ProgVer	1		Crisc? 3et
	LoggerID	273		Pause Clock Update
D	Measinty	60		
	DoMeas	false		Program
E	FTPInty	360		2177-273(V0.00),CR8
	balt_volt	12.23903		
F	PTemp	24.3048		Send Betrieve
	uStrain_Mux1_SG(1)	-4311.216		
	uStrain_Mux1_SG(2)	1310.442		Notes
	uStrain_Mux1_SG[3]	-4389.616		
	uStrain_Mux1_SG(4)	-4428.816		
	uStrain_Mux1_SG(5)	-4468.016		
	uStrain_Mux1_SG(6)	-4507.216		
	uStrain_Mux1_SG(7)	-4546.416		
	uStrain_Mux1_SG(8)	-4585.616		
	Linear_Mux1_SG(1)	-9998		
	Linear_Mux1_SG(2)	4442.964		
	Linear_Mux1_SG(3)	(9998		
	Linear_Mux1_SG(4)	-3338		
	Linear_Mux1_SG(5)	-5336		
	Linear_Mux1_SG(6)	-5336		
	Linear_Mux1_SU(7)	-3336		
	Temperature Must CC(1)	-3330		
	Temperature_Mux1_SG(2)	-134.3010		
	Temperature_Must_SG(2)	146 0753		
	Temperature_Mux1_SG(4)	-146.3733		
	Temperature Must SGI5	-140.2405		
	Temperature Mux1 SG(6)	-141 5309		
	Temperature Mux1 SS(7)	-141 0742		
List Alphabetically	Temperature_Mux1_SG(8)	-138.8171	*	
	the second se		10000	

Figure 16.Once connected select the "Public" table

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The details within the public table will differ for every data logger. Though the features that are consistent are:

Α.	RecNum	
	-	This will tell you how many scans have been performed since the logger has been switched on. This will not indicate how many readings have been taken but how many times the program has checked if the DoMeas is true. This will usually scan every minute (see A on Figure. 16.).
В.	TimeStamp	
	-	This will display the current time set in the logger. This can be adjusted to the time of the PC connected to the logger by using the "Set" button in the top right corner (see B on Figure. 16 .).
С.	ProgVer	
	-	The current version of the program (see C on Figure. 16.).
D.	LoggerID	
	-	The last three digits of the logger identification number
		(see D on Figure. 16.).
Е.	MeasIntv	
	-	The measure interval in minutes. This can be set by clicking on the number and retyping the number of minutes you wish to set the interval to, then pressing enter. In most cases this can be set between 1 to1440 minutes. If set out of this range it will reset to the default measure interval (the interval asked for when the logger was purchased). When the logger is turned off and back on this will also reset the measure interval to its default (see E on Figure. 16 .).
F.	DoMeas	
	-	When this is true the logger will take a reading on the next scan (in most cases this will be on the next minute). This will be true when the logger is first powered on. This can also manually be set to true by clicking on false, typing true then pressing enter (see F on Figure. 16.).

The other values shown will mainly be the most recent readings. These can be associated with the wiring diagram by the mux (multiplexer) number and sensor number. They will also indicate sensor type and unit.





3.2 Downloading current data

To download data you will need to connect to the data logger as detailed above then select the "Collect Now" button at the top of the connect screen (see Figure. 17.).

talions	Table Monitor: Real Time Monitoring				
CR800Senes		Adjusted Senser Date/Time			
	Public Show Units		22/12/2011 15 42 03		
			Chatter Date (Time		
	Field	Value	22/12/2011 15:42:03		
	RecNum	8			
	TimeStamp	22/12/2011 15:41:51	Check Set		
	ProgVer	1			
	LoggerID	273	Pause Clock Update		
	Measinty	60			
	DoMeat	false	Program		
	FTPIntv	360	2177-273(V0.00),CR8		
	balt_volt	12.23903			
	PTemp	24.3048	Send		
	uStrain_Mux1_SG[1]	-4311.216	and the second second		
	uStrain_Mux1_SG(2)	1310.442	Notes		
	uStrain_Mux1_SG[3]	-4389.616			
	uStrain_Mux1_SG(4)	-4428.816			
	uStrain_Mux1_SG(5)	-4468.016			
	uStrain_Mux1_SG(6)	-4507.216			
	uStrain_Mux1_SG(7)	-4546.416			
	uStrain_Mux1_SG(8)	-4585.616			
	Linear_Mux1_SG(1)	-9998			
	Linear_Mux1_SG(2)	4442.964			
	Linear_Mux1_SG(3)	-9998			
	Linear_Mux1_SG(4)	-9998			
	Linear_Mux1_SG(5)	-9998			
	Linear_Mux1_SG(6)	-9998			
	Linear_Mux1_SG(7)	-3338			
	Linear_Mux1_SG(8)	-35356			
	Temperature_Mux1_SG(1)	-134.9018			
	Temperature_Mux1_SG[2]	23.97614			
	Temperature_Mux1_SG(3)	-146.5753			
	Temperature_Mux1_SG(4)	-145.3/53			
	Temperature_Mux1_SG(5)	-140.2405			
	Temperature_Mux1_SG(6)	-141.5303			
ist Alphabetically	Temperature_Mux1_SG(7)	-141.0/42	-		
and the second of	Temperature_Mux1_SG(8)	-138.8171	•		

Figure 17. Collect Now

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e Edit View Datalogger Hel Sconnect Collect Now Custor	n Station Status File Control	Num Display Graphs Ports & Flags	
Stations	Table Monitor: Real Time Monito	ring	Clocks
CB800Series	Public	Show Units	Adjusted Server Date/Time
CR800_RS232_38400		22/12/2011 17:00:11	
CR800_RS232_0ther CR1000_RS232_115200	Field	Station Date/Time	
CR1000_RS232_38400	BecNum		22/12/2011 17:00:11
Soil SIM	TimeStamp	22/12/2011 17:00:00	
2177-234	ProdVer	1	Chec <u>k</u> Set
CR10X	LoggerID	273	Deves Cleak Hadete
	MeasInty	60	Pause Clock Opdate
	DoMeas	hue	Program
Collecting Data	(COMMAN)	×	2177 2720/0 000 CB9
			2177-275(V0.00).Cho
	Collecting data from CF	R800Series	<u>S</u> end <u>R</u> etrieve
	0% Cancel		
		430b.344	
	Cancel	4.30b.344 	
	Cancel	4.305.344 	
	Cancel	4.30b.344 9998 9998 9998 9998	
	Cancel	4-305.344 -9938 	
	Cancel	4.305.344	
	0% Cancel Linear_Mux1_SG(3) Linear_Mux1_SG(3) Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(6) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature Mux1_SG(1)	4.305.344 -9938 	
	0% 0% Cancel Linear_Mux1_SG(2) Linear_Mux1_SG(3) Linear_Mux1_SG(3) Linear_Mux1_SG(3) Linear_Mux1_SG(3) Linear_Mux1_SG(3) Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(6) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(1) Temperature_Mux1_SG(2)	4305.344 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -24,03229	
	Cancel	4305.344 -9998 -138.8171 24.03229 -135.0946	
	0% Cancel	4305.344 -9938 -135.0946 -136.6041	
	0% Cancel	4305.344 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -9938 -138.8171 24.03229 -135.0946 -136.6041 -145.1601	
	0% Cancel	4305.344 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -138.8171 24.03229 -135.0946 -136.6041 -145.1601 -135.7047	
	0% Cancel	4305.344 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -9998 -135.0946 -136.6041 -145.1601 -135.7047 -138.5011	
List Alphabetically	0% Cancel	4305.344 -9938 -135.0946 -135.7047 -138.5011 NAN	

Figure 18. Collecting Data

Once the data is collected it will produce data files that are in comma separated format These will be named in the style:

SalesOrderNumber_WhatData_LoggerID.dat

There may be several of these for different units or for different instrument types.

The 'File Name' column will indicate the location on the computer that the file has been saved to (See Figure 19.).

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🔰 🔍	ے لیے		1.00	- E	č	
Disconnect Colle	ct <u>N</u> ow C <u>u</u> stom	Station Status File Control	Num Display	<u>G</u> raphs P <u>o</u> rts &	: Flags	
Stations		Table Monitor: Real Time Monitor	oring			Clocks
CR900Series		Public	-	- Sha	w Units	Adjusted Server Date/Time
CR800_RS232_	38400				or on the	22/12/2011 17:01:00
CR1000_RS232_Uther CR1000_RS232_115200 CR1000_RS232_38400 CR1000_RS232_0ther		Field Value				Station Date/Time
		RecNum 87		- Â	22/12/2011 17:01:00	
Soil SIM	_omer	TimeStamp	22/12/2011	17:00:48	_	
2177-234 2177-233 CR10X		ProgVer	1			Chec <u>k</u> Se <u>t</u>
		LoggerID	273			Pause Clock Lindate
		Masalahu	cn			
ata Collection Resu	lts	1 office	-			<u> </u>
Summary				1		-273(V0.00).CR8
Table	File Name			File Mode	File Format	
SO16825_All_273	C:\Campbellsci\Lo	ggerNet\CR800Series_SO16825_4	All_273.dat	Append to File	ASCII, TOA5	Bend <u>R</u> etrieve
Total number of value	is collected:	108	OK	View File	<u>H</u> elp	
Total number of value	ss collected:		OK	View File	Нер	
Total number of value	ss collected:	108 Linear_Mux1_SG(4)	OK -9998	View File) <u>H</u> elp	
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5)	OK -3938 -3938	View File) <u>H</u> elp	
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(6)	OK -9998 -9998 -9998	View File		
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(6) Linear_Mux1_SG(7)	OK -9998 -9998 -9998 -9998	View File		
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(6) Linear_Mux1_SG(7) Linear_Mux1_SG(8)	OK -9998 -9998 -9998 -9998 -9998 -9998	View File		
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(1)	OK -9998 -9998 -9998 -9998 -9998 -9998 -136.6041	View File		
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(7) Temperature_Mux1_SG(1) Temperature_Mux1_SG(2)	OK -9998 -9998 -9998 -9998 -9998 -9998 -136.6041 24.01923 -4.01923	View File		
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(1) Temperature_Mux1_SG(2) Temperature_Mux1_SG(2)	0K -9998 -9998 -9998 -9998 -9998 -9998 -136.6041 24.01923 -135.4650	View File		
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(1) Temperature_Mux1_SG(2) Temperature_Mux1_SG(3) Temperature_Mux1_SG(4) Temperature_Mux1_SG(4)	OK -9998 -9998 -9998 -9998 -9998 -9998 -136.6041 24.01923 -151.2146 -135.4958 -141.0742	View File		
Total number of value	ss collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(2) Temperature_Mux1_SG(3) Temperature_Mux1_SG(4) Temperature_Mux1_SG(5) Temperature_Mux1_SG(5)	OK -9998 -9998 -9998 -9998 -9998 -9998 -136.6041 24.01923 -151.2146 -135.4958 -141.0742 -143.1111	View File		
Total number of value	es collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(3) Temperature_Mux1_SG(4) Temperature_Mux1_SG(5) Temperature_Mux1_SG(5) Temperature_Mux1_SG(6) Temperature_Mux1_SG(7)	OK -9998 -9998 -9998 -9998 -9998 -9998 -136.6041 24.01923 -151.2146 -135.4958 -141.0742 -143.1111 -137.6276	View File		
Total number of value	es collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(3) Temperature_Mux1_SG(3) Temperature_Mux1_SG(4) Temperature_Mux1_SG(5) Temperature_Mux1_SG(6) Temperature_Mux1_SG(7) Temperature_Mux1_SG(8)	OK -9998 -9998 -9998 -9998 -9998 -9998 -136.6041 24.01923 -151.2146 -135.4958 -141.0742 -143.1111 -137.6276 -137.0982	View File		
Total number of value	es collected:	108 Linear_Mux1_SG(4) Linear_Mux1_SG(5) Linear_Mux1_SG(5) Linear_Mux1_SG(7) Linear_Mux1_SG(8) Temperature_Mux1_SG(1) Temperature_Mux1_SG(3) Temperature_Mux1_SG(3) Temperature_Mux1_SG(5) Temperature_Mux1_SG(6) Temperature_Mux1_SG(7) Temperature_Mux1_SG(8)	OK -9998 -9998 -9998 -9998 -9998 -9998 -136.6041 24.01923 -151.2146 -135.4958 -141.0742 -143.1111 -137.6276 -137.0982	View File		

Figure 19.DataTables Collect

The data files can easily be uploaded straight in to ARGUS (D4-2.0) which is custom configured to deal with data from data loggers. There are also advanced options in the setup screen which allows for this to be scheduled and run automatically.

Alternatively the data can be viewed and manipulated in Excel or a similar data processing program. The data is comma separated.

For further advanced guides or technical support please go to <u>www.itmsoilsupport.com</u> to view various knowledgebase articles or submit a support ticket.

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