DataSuite and DatPass Administration Software Validation Manual

Supporting Fourtec Data Loggers

For compliance with the United States Food and Drug Administration Title 21 Code of Federal Regulations Part 11 and with GAMP 5

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Chapter 1: Introduction

This manual will guide you through the process of validating the DatPass and DataSuite software package together with Fourtec data loggers to GAMP 5 and FDA Title 21 CFR Part 11 guidelines. This manual will provide users with a test plan for their own performance and operational qualification of DatPass and DataSuite and the Fourtec hardware.

The manual comprises several sections, describing the relevant FDA Title 21 CFR Part 11 regulations and the implementation of these regulations in the Fourtec software package. In addition, this manual provides the necessary test sheets for DatPass and DataSuite software as well as the Fourtec loggers. It is important to understand that the implementation of these guidelines is not the sole responsibility of Fourtec. The user must undertake a large portion of the responsibility through the appropriate validation tests.

The software package consists of two programs:

- DatPass DataSuite administration application
- DataSuite Data acquisition and analysis application, supporting the DataNet wireless system (in addition to other Fourtec loggers).

Supported hardware includes:

- DataNet wireless acquisition system
- DagLink standalone data logger
- MicroLite USB data logger
- MicroLogPRO II portable data logger
- PicoLite disposal USB data logger

To validate the software package, start by testing DatPass, followed by DataSuite. Some of these tests assume that the user is familiar with the Windows interface in addition to the DatPass and DataSuite software.



Chapter 2: What is Title 21 CFR Part 11?

The Food and Drug Administration (FDA) issued the regulations *Title 21 Code of Federal Regulations Part 11*. These regulations provide criteria for acceptance by FDA, under certain circumstances, of electronic records, electronic signatures, and handwritten signatures executed to electronic records as equivalent to paper records and handwritten signatures executed on paper. The regulations apply to all FDA program areas, and are intended to permit the widest possible use of electronic technology, compatible with FDA's responsibility to promote and protect public health. Part 11 applies to any record governed by an existing FDA predicate rule that is created, modified, maintained, archived, retrieved, or transmitted using computers and/or saved on durable storage media.

Title 21 CFR Part 11 Definitions

Electronic Record

Any combination of text, graphics, data, audio, pictorial or other information representation in digital form, that is created, modified, maintained, archived, retrieved or distributed by a computer system.

Electronic Signature

A computer data compilation of any symbol or series of symbols, executed, adopted or authorized by an individual to be the legally binding equivalent of the individual's handwritten signature.

Digital Signature

An electronic signature based upon cryptographic methods of originator authentication, computed by using a set of rules and a set of parameters such that the identity of the signer and the integrity of the data can be verified.

Closed System

An environment in which system access is controlled by persons who are responsible for the content of electronic records that is on the system.

Open System

An environment in which system access is not controlled by persons who are responsible for the content of electronic records that is on the system.

Standard Operating Procedures (SOPs)

Guidelines and rules defined by the organization implementing Title 21 CFR Part 11 compliance to instruct users what they are and are not permitted to do and how they are to perform the relevant tasks.

Fourtec Software

The dual program software package achieves compliance with FDA Title 21 CFR Part 11 with: *DataSuite* and *DatPass*. The DatPass software is the administration software, which includes features that define the users that can log into the DataSuite software, their passwords and the digital signatures the users are permitted to sign data within electronic records (files). The DataSuite software is used to access the electronic records, display the logger data, analyze the data and allow the user to add the appropriate digital signatures to the electronic records, in addition to other features.





Chapter 3: Compliance with Title 21 CFR Part 11

Title 21 C	FR Part 11 Requirements	Comme	nts on Compliance or Requirements
	ontrols for Closed Systems		
(a)	Validation of systems to ensure accuracy, reliability, consistent intended performance, and the ability to discern invalid or altered records.	Yes	DataSuite will not open invalid or altered data.
(b)	The ability to generate accurate and complete copies of records in both human readable and electronic form suitable for inspection, review, and copying by the agency.	Yes	To ensure data integrity, DataSuite stores data with specific formats (.dat and .dnp). Data can be exported to Excel™ and stored in common formats, such as an Excel workbook or for example comma delimited or tab delimited. Only through the (dat) formats can data be read back into DataSuite and only these formats support electronic signatures.
(c)	Protection of records to enable their accurate and ready retrieval throughout the records retention period.	N/A	The customer chooses which data directory to save files to. Otherwise, the default directory C:\Users\Public\Fourtec\DataSuite\Data Files for DataSuite data is used. System owners must establish their own SOPs to protect and restore data files.
(d)	Limiting system access to authorized individuals.	Yes	For limited access, the customer must purchase a valid software license and dongle device, preventing access to unauthorized users.
(e)	Use of secure, computer- generated, time- stamped audit trails to independently record the date and time of operator entries and actions that create, modify, or delete electronic records. Record changes shall not obscure previously recorded information. Such audit trail documentation shall be retained for a period at least as long as that required for the subject electronic records and shall be available for agency review and copying.	Yes	Every action that generates or alters an electronic record (dat and dnp), automatically generates an entry into an encrypted log file, which can be used in audit trail. The entries are chronologically organized and cannot be edited or deleted. The entries can only be viewed using the DatPass software. It is the system owner's responsibility to create SOPs to protect and restore audit trail files.
(f)	Use of operational system checks to enforce permitted sequencing of steps and events, as appropriate	Yes	A smart and user friendly interface ensures all DataSuite operations follow a specified order. This ensures all stages are followed.





Title 21 C	Title 21 CFR Part 11 Requirements		Comments on Compliance or Requirements	
(g)	Use of authority checks to ensure that only authorized individuals can use the system, electronically sign a record, access the operation or computer system input or output device, alter a record, or perform the operation at hand.	Yes	When using DataSuite, users logon with a valid username and password. All actions are recorded in an encrypted audit trial log file.	
(h)	Use of device (e.g. terminal) checks to determine, as appropriate, the validity of the source of data input or operational instruction.	Yes	DataSuite checks the status of the logger at each communication – errors are automatically reported.	
(i)	Determination that persons who develop, maintain, or use electronic record/electronic signature systems has the education, training, and experience to perform their assigned tasks.	N/A	System owners must provide their authorized users with relevant training.	
(j)	The establishment of, and adherence to, written policies that hold individuals accountable and responsible for actions initiated under their electronic signatures, in order to deter record and signature falsification.	N/A	System owners must develop written policy in which reliability and responsibility of each user is documented.	
(k)	Use of appropriate controls over systems documentation including:			
(k)(1)	Adequate controls over the distribution of, access to, and use of documentation for system operation and maintenance.	N/A	The DataSuite and DatPass package for Title 21 CFR Part 11 compliance are supplied with detailed user guides., which can be used to create SOP. Distribution, access and implementation of this documentation are the responsibility of the system owner.	
(k)(2)	Revision and change control procedures to maintain an audit trail that documents timesequenced development and modification of systems documentation. Controls for Open Systems	N/A	This is the responsibility of the system owner.	





Title 21 C	CFR Part 11 Requirements	Comme	nts on Compliance or Requirements
	Persons who use open systems to create, modify, maintain, or transmit electronic records shall employ procedures and controls designed to ensure the authenticity, integrity, and, as appropriate, the confidentiality of electronic records from the point of their creation to the point of their receipt. Such procedures and controls shall include those identified in §11.10, as appropriate, and additional measures such as document encryption and use of appropriate digital signature standards to ensure, as necessary under the circumstances, record authenticity, integrity, and	N/A	Datasuite has been implemented as a closed system.
\$11 FO S	confidentiality. Signature Manifestations		
(a) (a)	Signed electronic records shall contain information associated with the signing that clearly indicates all of the following: The printed name of the signer;	Yes	Stored and printed data contains: User
(-)(0)	The late of life of late is	. Was	login name, time/date stamp, and user signature meaning(s).
(a)(2)	The date and time when the signature was executed;	Yes	
(a)(3)	The meaning (such as review, approval, responsibility, or authorship) associated with the signature	Yes	
(b)	The items identified in paragraphs (a)(1),(a)(2), and (a)(3)of this section shall be subject to the same controls as for electronic records and shall be included as part of any human readable form of the electronic record (such as electronic display or printout).	Yes	Electronic signatures in DataSuite are subject to the same requirements as electronic records. Electronic signatures can be viewed electronically and can be included on a printout.
311.703	Electronic signatures and	Yes	In DataSuite, raw data and electronic
	handwritten signatures executed to electronic records shall be linked to their respective electronic records to ensure that the signatures cannot be excised, copied or otherwise transferred so as to falsify an electronic record by ordinary means.	103	signatures are permanently linked in a single file, and as such cannot be edited, deleted or separated.





Title 21 CFR Part 11 Requirements Comments on C			nts on Compliance or Requirements
	General Requirements		
(a)	Each electronic signature shall be unique to one individual and shall not be reused by, or reassigned to, anyone else.	Yes	DatPass software contains an authorized user list containing login name, password, and meanings list, making every user unique to the system.
(b)	Before an organization establishes, assigns, certifies or otherwise sanctions an individual's electronic signature, or any element of such electronic signature, the organization shall verify the identity of the individual.	N/A	This is the responsibility of the system owner.
(c)	Persons using electronic signatures shall, prior to or at the time of such use, certify to the agency that the electronic signatures in their system, used on or after August 20, 1997, are intended to be the legally binding equivalent of traditional handwritten signatures.	N/A	This is the responsibility of the system owner.
(c)(1)	The certification shall be submitted in paper form, and signed with a traditional handwritten signature, to the Office of Regional Operations (HFC-100),5600 Fishers Lane, Rockville, MD 20857.	N/A	This is the responsibility of the system owner.
(c)(2)	Persons using electronic signatures shall, upon agency request, provide additional certification or testimony that a specific electronic signature is the legally binding equivalent of the signer's handwritten signature.	N/A	This is the responsibility of the system owner.
§11.200	Electronic Signature Compone	ents and	Controls
(a)	Electronic signatures that are not based upon biometrics shall:		
(a)(1)	Employ at least two distinct identification components such as an identification code and password.	Yes	DatPass Software for Title 21 CFR Part 11 compliance uses a unique dual component combination: Login username and password. Every login and new digital signature with DataSuite requires a valid username and password. DataSuite enforces the user to re-logon after a time period, which is defined by the administrator via the DatPass software.





Title 21 C	FR Part 11 Requirements	Comme	nts on Compliance or Requirements
(a)(1)(i)	When an individual executes a	Yes	511 5011 pilatios of Roquitoriloito
(α)(1)(1)	series of signings during a	103	
	single, continuous period of		
	controlled system access, the		
	first signing shall be executed		
	using all electronic signature		
	components; subsequent		
	signings shall be executed using		
	at least one electronic signature		
	component that is only		
	executable by, and designed to be used only by, the individual		
(a)(1)(ii)	When an individual executes	Yes	
(a)(1)(ii)		res	
	one or more signings not		
	performed during a single		
	continuous period of controlled		
	system access, each signing		
	shall be executed using all of the		
	electronic signature		
(-)(0)	components.	NI/A	Information as City Cally 1 - 0
(a)(2)	Be used only by their genuine	N/A	Information confidentiality is the
	owners;		responsibility of the system owner and
() (6)			users.
(a)(3)	Be administered and executed	N/A	Information confidentiality is the
	to ensure that attempted use of		responsibility of the system owner and
	an individual's electronic		users.
	signature by anyone other than		
	its genuine owner requires		
	collaboration of two or more		
	individuals.		
(b)	Electronic signatures based	N/A	Biometrics are not the basis of
	upon biometrics shall be		electronic signatures generated by
	designed to ensure that they		DatPass software for Title 21 CFR Part
	cannot be used by anyone other		11 compliance.
_	than their genuine owners.		
§11.300	Controls for Identification Cod	es/Pass	words
	Persons who use electronic		
	signatures based upon use of		
	identification codes in		
	combination with passwords		
	shall employ controls to ensure		
	their security and integrity. Such		
()	controls shall include:	.,	
(a)	Maintaining the uniqueness of	Yes	Since every user is unique in the
	each combined identification		DataSuite and DatPass systems,
	code and password, such that		duplicate combinations of username
	no two individuals have the		and password are impossible.
	same combination of		
	identification code and		
	password.		
(b)	Ensuring that identification code	Yes	Adequate aging of passwords is the
	and password issuances are		responsibility of the system owner.
	periodically checked, recalled, or		DataSuite allows authenticated users to
	revised, (e.g. to cover such		change their own logon password.
	events as password aging).	<u> </u>	
			•





T'() - 04 O				
	Title 21 CFR Part 11 Requirements		nts on Compliance or Requirements	
(c)	Following loss management procedures to electronically deauthorize lost, stolen, missing, or otherwise potentially compromised tokens, cards, and other devices that bear or generate identification code or password information, and to issue temporary or permanent replacements using suitable, rigorous controls.	N/A	Unauthorized access is vetoed by the DatPass software since an administrator can disable or remove any user from the system.	
(d)	Use of transaction safeguards to prevent unauthorized use of passwords and/or identification codes, and to detect and report in an immediate and urgent manner any attempts at their unauthorized use to the system security unit, and, as appropriate, to organizational management.	Yes	All unsuccessful logons are recorded in the audit trail log file.	
(e)	Initial and periodic testing of devices, such as tokens or cards, that bear or generate identification code or password information, to ensure that they function properly and have not been altered in an unauthorized manner.	N/A	This is the responsibility of the system owner.	

References

For further information on FDA Title 21 CFR Part 11, please visit the FDA website:

www.fda.gov

For FDA guidance documents: www.fda.gov/ora/compliance_ref/part11/





Chapter 4: DatPass Validation Tests

1 - Initial Login

Following DatPass installation, you will be required to start the 30-day free trial period or to activate the software using the unique product serial number supplied with the software CD. Until either of these actions is performed, the user won't be able to login to DatPass.

Note: Following installation, the first user to login to the DatPass software is automatically assigned the user name *Admin*. He is classified as an Administrator.

Test #	Test Description	Expected Result	Result
1.1	Double click the DatPass	Verify that the <i>User Login</i> dialog box	
	shortcut on the Desktop.	opens.	
1.2	Click New User in the login window.	 a. Verify that the New User Login window opens. b. Verify that the New User dropdown menu displays the Admin user name. 	
1.3	 a. Populate the New User ID, Confirm User ID, New Password and Confirm Password fields, and click OK. b. Exit the DatPass software. c. Launch the DatPass software. 	 a. Once DatPass is launched, verify that the <i>User Login</i> window opens. b. Verify that the newly created User ID and User Password are correct (click OK and verify successful login to DatPass). 	

2 - File Menu

Test #	Test Description	Expected Result	Result
2.1	On the File menu, click Open. Navigate to: C:\Users\Public\Fourtec\DatPass. Note: You will only find database files saved in this directory if previous database data, such as the Audit Trail log, has been saved.	 a. Verify that the <i>Open</i> dialog box opens. b. Select a file to open, and click Open. c. Verify that the database file (file extension .mdb) opens, and the table data is displayed in the main DatPass window. 	
2.2	On the File menu, click New .	Verify that the DatPass main window is clear of all previous Audit Trail data.	





Test #	Test Description	Expected Result	Result
2.3	On the File menu, click Print . Note: For this action to succeed, the main DatPass window must be populated with Audit Trail log data.	Verify that the <i>Print Dialog</i> dialog box opens.	
2.3.1	 In the <i>Print Dialog</i> dialog box: a. Select Portrait or Landscape orientation. b. Using the <i>From</i> and <i>To</i> fields, define the date and time range to print. c. Click OK. 	Verify that the <i>Print</i> dialog box opens.	
2.3.2	In the <i>Print</i> dialog box, confirm that the correct printer is selected in the <i>Name</i> drop-down menu and click OK .	Verify that the graph was printed with the specific date and time range (as defined in test 2.3.1), at the selected printer.	
2.4	On the File menu, click Print Setup.	Verify that the <i>Print Setup</i> dialog box opens.	
2.5	On the File menu, click Log Off .	Verify that the <i>User Login</i> dialog box opens.	

3 - Administration

Test #	Test Description	Expected Result	Result
3.1	On the Administration menu, click User Administration.	 a. Verify that the <i>User</i> Administration dialog box opens. b. Verify that Admin appears under the <i>User Name</i> tab and Administrator appears under the <i>Group</i> tab. 	



Test #	Test Description	Expected Result	Result
3.1.1	a. In the <i>User</i>	Verify that a new user has been	
	Administration dialog	added to the User Administration	
	box, click Add User.	dialog box, listing the correct User	
	b. Enter a new user name	Name and Group.	
	in the <i>User Name</i> field.		
	c. Select a Group from the		
	Group drop-down menu:		
	Administrator, Approver, or User.		
	Under the <i>Login Settings</i>		
	heading:		
	d. Enter a number in the		
	Password min length		
	field (for example, 4).		
	e. Enter a number in the		
	User ID min length field		
	(for example, 4).		
	f. Enter number of days in		
	the Password expiration		
	time (days) field (for		
	example, 1).		
	g. Use the drop-down		
	menu in the <i>Inactivity</i> Timeout field to select		
	the duration (for		
	example, 00:05:00).		
	h. Click OK.		
3.1.2	a. Launch the DatPass	Verify that the DatPass software	
	software and add click	opens.	
	New User.	•	
	b. Using the new user		
	account created in test		
	3.1.1, fill in the New User		
	ID, Confirm New User		
	ID, New Password and		
	Confirm Password fields. c. Click OK .		
3.1.3	c. Click OK . Launch the DatPass	Varify that in all three login toots, the	
3.1.3	software. In the <i>User Login</i>	Verify that in all three login tests, the DatPass software does not open.	
	dialog box:	Dati doo oortware doos not open.	
	a. Enter an incorrect user		
	name and a correct		
	password.		
	b. Enter a correct user		
	name and an incorrect		
	password.		
	c. Enter an incorrect user		
	name and password.		





Test #	Test Description	Expected Result	Result
3.2.1	In the User Administration dialog box, select the newly added user (see test 3.1.1) and click Properties . a. In the User Properties dialog box, change the user group using the drop-down menu in the Group field. For example, from User to	 a. Verify that the User Properties dialog box opens. b. Verify that the properties entered when adding the user (in test 3.1.1) are correct. Verify that the user group was successfully changed by reopening the User Properties dialog box and checking the Group field. 	
3.2.2	a. In the User Properties dialog box, change the Login Settings. b. Click OK .	Verify that the <i>Login Settings</i> were successfully changed by reopening the User Properties dialog box and checking the relevant Login Settings.	
3.3	In the <i>User Administration</i> dialog box, select a user and click Deactivate.	Verify that the user icon is now marked with a white cross in a red background, as follows:	
3.3.1	Open the DatPass software and attempt to login with the user name and password of the newly deactivated user.	Verify that a dialog box opens with the message: Your user account was deactivated. Please refer to your system administrator.	
3.3.2	 a. In the User Administration dialog box, select the previously deactivated user and click Activate. b. Exit DatPass, then reopen DatPass and login with the user name and password of the newly activated user. 	Verify that you are able to successfully login to DatPass.	
3.3.3	 a. In the User Administration dialog box, select a user and click Renew Password. b. Exit DatPass, and then reopen DatPass and attempt to login with that user. 	 a. Verify that a new DatPass dialog box opens with the message: Your password was reset. Please enter a new password. b. After clicking OK, verify that a new Change Password dialog box opens. 	
3.3.4	a. In the Change Password dialog box, enter a new password and then confirm this password. b. Click OK .	Verify that the DatPass software opens.	





Test #	Test Description	Expected Result	Result
3.3.5	Launch the DatPass software and login using the user name and new password created in step 3.3.4.	Verify that the DatPass software opens.	
3.4	On the Administration menu, click Group Administration.	 a. Verify that the <i>Group</i> Administration dialog box opens. b. Verify that the group names User, Approver and Administrator are displayed. 	
3.4.1	In the <i>Group Administrator</i> dialog box, click Add Group.	Verify that the <i>Group Properties</i> dialog box opens.	
3.4.2	 a. In the Group Properties dialog box, enter a new name in the Group Name field. b. Click the New check box. c. Click OK. 	 a. Verify that the <i>Group</i> Administration dialog box opens. b. Verify that the newly created group is displayed in the <i>Group</i> Name list. 	
3.4.3	In the <i>Group Administrator</i> dialog box, select the newly created group and click Properties.	Verify that there is only one check box selected (in this case, <i>New</i>).	
3.4.4	In the Group Administrator dialog box, select one of the listed groups and click Remove Group. Note: You will not be able to remove a group if there are still users who are members of this group.	 a. Verify that a dialog box opens with the message: Are you sure you want to remove <group name=""> group?</group> b. Click Yes. 	
3.4.5	On the Administration menu, click Group Administration.	Verify that the group you have removed is no longer displayed in the <i>Group Name</i> list.	

4 – Help

Test #	Test Description	Expected Result	Result
4.1	On the Help menu, click DatPass User Guide.	Verify that the DatPass v4.0 User Guide is opened (file name: User Guide.pdf)	
4.2	On the Help menu, click Register .	 a. Verify that the Validata – Product Validataion window is opened. b. DatPass will either be in the Trial mode, or will already be activated. 	
4.3	On the Help menu, click About DatPass.	 a. Verify that DatPass version 4.0.0.0 is displayed. b. Verify the link http://www.Fourtec.com works. 	





5 - Toolbar Icons

Test #	Icon	Test and Expected Result	Result
5.1	Open	Refer to test 2.1.	
			
5.2	Print	Refer to test 2.3.	
	3		
5.3	User Administration	Refer to tests 3.1 to 3.3.	
	&		
5.4	Group Administration	Refer to test 3.4.	
	sa.		
			
5.5	Refresh	5 () ()	
	2	Perform at least one action in the MicroLab software and click Refresh .	
		b. Verify that the Audit Trail data has been refreshed (you will see new actions added to the table).	



Chapter 5: DataSuite Validation Tests

This Validation document is designed for the DataSuite software running any of the following products:

- DataNet wireless acquisition system
- DagLink standalone data logger
- MicroLite USB data logger
- MicroLogPRO II portable data logger
- PicoLite disposal USB data logger

Note: The DataSuite validation tests must be performed by a user with full Administrator privileges, as defined by the DatPass software. Otherwise, it will not be possible to execute all tests described in this chapter.

1 - Login

Test #	Test Description	Expected Result	Result
1.1	 a. Launch the DataSuite software from the desktop shortcut. The User Login dialog box opens. b. In the User ID field, enter the User ID created in test 1.3 of the DatPass Validation Test. c. In the User Password field, enter an incorrect password. a. In the User Login dialog box, in the User ID field, 	Verify that the DataSuite software does not open and an <i>Incorrect Password</i> message window opens. Verify that the DataSuite software does not open and an <i>Incorrect</i>	Rosult
	enter an incorrect User ID. b. In the User Password field, enter the User Password created in test 1.3 of the DatPass Validation Test.	User ID message window opens.	
1.3	In the <i>User Login</i> dialog box, enter an incorrect User ID and User Password.	Verify that the DataSuite software does not open and an <i>Incorrect User ID</i> message window opens.	
1.4	In the User Login dialog box, login using the User ID and User Password created in test 1.3 of the DatPass Validation Test.	Verify that the DataSuite software is launched.	



2 - File Menu

Test #	Test Description	Expected Result	Result
2.1	Click Open .	Verify that the Open Data Files	
	•	window is opened.	
2.1.1	In the Open Data Files	Verify that the selected data set	
	dialog box, select a logger	from the specific logger opens,	
	according to its Serial	and that the appropriate data is	
	Number or Comment and	displayed in the graph and table in	
	select the data set using the	the History View window.	
	From: and To: fields.		
2.2	From the History View	Verify that the project has been	
	window, with at least one	saved in the selected location.	
	data set open, go to File		
	menu and click Save		
	Project . Enter the project		
	name in the Save As dialog		
2.2.1	Click Open Project Files	Verify that the DataSuite project is	
	and browse to the location of	opened in the History View	
	a previously created	window, with the relevant data	
	DataSuite project file. Click	from all loggers in the selected	
	Open.	project.	
2.3	Click Backup System Files	Verify that the Backup System	
	and enter the system	Files window is opened.	
	password.		
2.3.1	Select the option to backup	Verify that a progress bar	
	the system files to a folder	indicates that the system files are	
	on the computer. Browse to	being backed up.	
	the relevant folder (or create	When complete the message	
	a new folder) and click OK .	Done will appear below the	
		progress bar.	
2.3.2	Open the folder in which the	Verify that a file which the	
	system files were backed	extension .BackUp is found, with a	
	up.	creation timestamp of when this	
		feature was executed.	
2.4	Click Restore System Files	Verify that the Restore System	
	and enter the system	Files window is opened.	
	password.		
2.4.1	Select the option to restore	Verify that the Available Restore	
	the system files from a folder	Points window is opened.	
	on the computer. Browse to		
	the folder that was selected		
	in bullet 2.3.2 above, in		
	which the system files are		
0.4.0	located, and click OK .	Marifu that a reserve	
2.4.2	From the Available Restore	Verify that a progress bar	
	Points window, select the	indicates that the system files are	
	relevant backup file and click	being restored from the selected	
	OK.	restore point.	
		When complete the message	
		Done will appear below the	
		progress bar.	



Test #	Test Description	Expected Result	Result
2.4.3	The user will be prompted to restart the computer in order to complete the restore process. Click Yes .	Verify that the computer is restarted. Login to DataSuite and confirm the system settings are intact.	
2.5	Click Print Map View . Proceed with the Windows print setup and click Print .	Verify that the current Map View background has been printed.	
2.6	Click Log Off.	Verify that the <i>Login</i> window is opened, indicating that the user has been logged out of DataSuite.	
2.7	Click Exit.	Verify that the DataSuite software is closed.	

3 - DataNet Network Menu

Ensure that the DataNet Receiver is already detected by the DataSuite software, and that at least one DataNet logger or Repeater has joined the network before carrying out these tests.

Test #	Test Description	Expected Result	Result
3.1	Click Show Network Paths.	Verify that the network paths between all online devices in the network are displayed as a green, yellow or red path.	
3.2	Click Refresh Network Connections.	Refer to the Receiver icon tool tip and verify that the Refresh Network Connections command is in queue and is processed by the Receiver.	

4 - Tools Menu

Test #	Test Description	Expected Result	Result
4.1	Select Define Sensor .	Verify that the <i>Defined Sensors</i> dialog is opened.	
4.1.1	Click New to enable adding a new sensor. In the Sensor Properties fields, enter a <i>Sensor name</i> and <i>Sensor unit</i> , and select the relevant option from the <i>Base sensor</i> and <i>decimal digits</i> menus. Enter the relevant values in the Define Values fields. Click Save .	Verify that all properties have been entered correctly in the <i>Defined Sensor</i> dialog.	





Test #	Test Description	Expected Result	Result		
4.1.2	Go to the Setup window of	Verify that the Sensor name			
	an online data logger and	appears in the drop-down menu.			
	in the Sensor type drop-				
	down menu, select the				
	Sensor name as defined in				
	4.1.1.				
4.1.3	Send the setup to the	Verify that the Sensor name			
	logger, including the	appears in the Logger icon tool			
	defined sensor name on	tip when sampling data, with the			
	one of the logger inputs.	correct values.			
4.2	Go to the Sensor View with	Verify that the Sensor boxes			
	online loggers sampling	switch between large and small			
	data. On the Tools menu,	sizes.			
	select Switch Sensor				
	View Mode.				
4.3	Click Lock Map View	Verify that the icons on the Map			
	ensuring there is a check	View cannot be moved and are			
	mark next to this menu	locked in position.			
	item.				
4.3.1	Unselect the check mark	Verify that the icons on the Map			
	next to the Lock Map View	View can be moved freely			
	menu item.	around the Map View window.			
4.4	Select Options .	Verify that the <i>Options</i> dialog			
		opens.			
4.4.1	Options > Preferences Tab Tests				
	•	commence the testing of this tab.			
4.4.1.1	Select the check box next	Verify that the application has			
	to the Minimize application	been minimized and the			
	to System tray option.	DataSuite icon appears in the			
	Minimize the DataSuite	Windows system tray.			
	application.)			
4.4.1.1.1	Double click the DataSuite	Verify that the DataNet			
4.4.4.0	icon in the system tray.	application is opened.			
4.4.1.2	Select the check box next	Verify that after resetting the			
	to the Run application on	computer, DataSuite is			
4440	Windows startup option.	automatically launched.			
4.4.1.3	Toggle the Map View	Verify that the Map View			
	background options	background image is centered			
	between Stretch and	or stretched, depending on the			
	Center.	option selected. Depending on			
		the background image there			
		might not be any noticeable			
4 4 4 4	In the Cot desired place	difference.			
4.4.1.4	In the Set decimal places	Verify that for the selected input,			
	for option, select a sensor	the value is now displayed in a			
	input and change the	resolution according to the			
	number of decimal places	number of decimal places			
	from the default selection.	selected.			





Test #	Test Description	Expected Result	Result
4.4.1.5	Change the Date Format to	When viewing online or offline	
	one of the options	data, verify that the date	
	available in the drop-down	appears according to the date	
	menu.	format selected.	
4.4.1.6	Change the path where the	Once the path has been	
	DataSuite data files are	changed, wait for data to be	
	saved by clicking Browse	downloaded from at least one	
	next to the Application data	logger on the network. Go to the	
	files path option. Browse to	new path and verify that a folder	
	the new path and click OK .	named using the logger serial	
		number has been created there,	
		and that data files are contained within this folder.	
4.4.1.7	Select the Save text data	Download data from at least one	
4.4.1.7	files option.	logger, and verify that text files	
	mes option.	containing logger data have	
		been created in the path	
		displayed under the Save text	
		data files option.	
4.4.1.7.1	Change the path where the	Once the path has been	
	DataSuite text data files	changed, download data from at	
	are saved by clicking	least one logger. Go to the new	
	Browse next to the Save	path and verify that the text files	
	text data files option.	have been created there.	
	Browse to the new path		
	and click OK .		
4.4.1.8	Change the path where the	Once the path has been	
	Report files are saved by	changed, create a DataSuite	
	clicking Browse next to the	report and verify that the report Excel or PDF file has been	
	Path for Report files option. Browse to the new path	created there.	
	and click OK .	Created triefe.	
4.4.2	Options > Device Settings	Tab	<u> </u>
4 4 0 4		ab to commence the testing of this to	ab.
4.4.2.1	Ensure the Download data	Verify that when you next launch the DataSuite	
	on application startup		
	option is selected.	application, assuming there is an online logger detected by the	
		software, data is automatically	
		downloaded.	
4.4.2.2	Ensure the Generate and	Verify that when you connect a	
	send Boomerang reports	MicroLite II, MicroLogPRO II or	
	automatically option is	PicoLite logger to the computer,	
	selected.	with DataSuite open and the	
		Boomerang feature already	
		configured on the logger, a	
		Boomerang report is	
		automatically generated by	
		DataSuite and is emailed to the	
		defined distribution list.	





Test #	Test Description	Expected Result	Result
4.4.3	Options > e-mail Settings		
		to commence the testing of this tal).
4.4.3.1	Click Edit next to the	Verify that the Email Profile	
	Selected Profile drop-down	Manager opens.	
4.4.3.2	menu.	Varify that the Drafile Cattings	
4.4.3.2	In the Profile List, click Add.	Verify that the <i>Profile Settings</i> , Server Information and Login	
	Aud.	Information fields are enabled	
		(not grayed out).	
4.4.3.3	Enter the relevant account	Verify that all the settings are	
	settings specific to your e-	entered correctly.	
	mail account.		
4.4.3.4	Ensure the <i>Use</i>	Verify that these settings are	
	authentication login check	entered correctly.	
	box is selected and enter the username and		
	password. If your e-mail		
	account does not require		
	login information this step		
	may be skipped.		
4.4.3.5	After all the email account	Verify that a test email from this	
	settings have correctly	account was successfully	
	been entered, click the	received by the defined contact.	
	Test Email button.		
	Select an existing email contact or enter a new		
	email address in the		
	relevant field.		
4.4.3.6	Click OK to return to the	Verify that an e-mail	
	main <i>Email Settings</i> tab.	notifications was sent to the	
	In the Selected Profile	selected contact/s.	
	drop-down menu, select		
	the email account created		
	in step 4.4.3.3.		
	Create an alarm condition		
	on one of the online data		
	loggers and select a		
	contact to receive an alarm		
	e-mail notification in the		
	event that the alarm		
4 4 2 7	threshold was breached.	Movify that an a result	
4.4.3.7	Repeat step 4.4.3.6 using the Default Account.	Verify that an e-mail notifications was sent to the	
	the Delault Account.	selected contact/s.	
4.4.3.8	Click Edit next to the	Verify that the email profile was	
	Selected Profile drop-down	removed from the Email Profile	
	menu.	Manager window.	
	Select the newly added		
	profile and click Remove.		





Test #	Test Description	Expected Result	Result
4.4.4	Options > SMS Settings Ta	ab	
4 4 4 4		to commence the testing of this tab	•
4.4.4.1	Select the Send SMS	Verify that the GSM Connection	
	notifications check box.	Settings and Unlock SIM Card fields are enabled (not grayed	
		out).	
4.4.4.2	In the GSM Connection	Verify that all the settings are	
	Settings section, enter the	entered correctly.	
	relevant settings specific to	, and the second	
	the GSM modem you are		
	using.		
4.4.4.3	If a PIN code is needed,	Verify that the Use PIN Code	
	select the Use PIN code	field is enabled.	
	check box and enter the		
4.4.4.4	code. Click OK to apply the	Verify that the GSM modem	
7.7.4.4	changes and close the	icon in the DataSuite upper tool	
	Options window. Ensure	bar is green, indicating modem	
	that the GSM modem is	connection.	
	properly connected to the		
	computer and is powered.		
4.4.4.5	Create an alarm condition	Verify that an SMS notification	
	on one of the data loggers	was sent to the selected	
	in the network and select a	contact/s.	
	contact to receive an alarm SMS notification in the		
	event that the alarm		
	threshold was breached.		
4.5	Click Manage Contacts.	Verify that the Manage Contacts	
	3	dialog is opened.	
4.5.1	Select the Contacts tab	Verify that the Contact Details	
	and click Add Contact .	dialog is opened.	
4.5.1.1	Select the Vacation check	Verify the <i>From</i> and <i>To</i> fields	
4540	box.	are enabled.	
4.5.1.2	Enter the relevant details in	Verify that the contact was	
	the Contact Details dialog (Name is mandatory).	created and is listed in the Contacts tab.	
	Click OK .	Contacts tab.	
4.5.1.3	Select the contact created	Verify that the Contact Details	
	in 4.5.1.2 and click Edit	dialog is opened with the same	
	Contact.	details entered in 4.5.1.2.	
4.5.1.4	Change one of the details	Verify that the detail has in fact	
	in the selected contact.	been changed.	
	Click OK. Click Edit		
4545	Contact on this contact.	N 's d to d	
4.5.1.5	Select the contact created	Verify that the contact has been	
	in 4.5.1.2 and click	removed from the list.	
4.5.2	Remove Contact. Select the <i>Groups</i> tab and	Verify that the <i>Group Details</i>	
7.J.2	click Add Group .	dialog is opened.	
	onon Add Group.	aiaiog is openieu.	





Test #	Test Description	Expected Result	Result
4.5.2.1	Enter a name in the <i>Group</i> Name field and click OK .	Verify that the group was created and is listed in the <i>Groups</i> tab.	- ROOM
4.5.2.2	Ensure at least one contact has been created, and click Edit Group . In the Contact section select at least one contact to add to the group. Click OK .	Verify that the contact name has been added to the group by seeing it appear under the Contacts header in the <i>Groups</i> tab, next to the relevant group.	
4.5.2.3	Select the group created in 4.5.2.1 and click Remove Group.	Verify that the group has been removed from the list.	
4.6	Select e-Mail Alarm Notifications.	Verify that the <i>e-Mail Alarm</i> Notifications dialog is launched.	
4.6.1	Note: Test 4.6.1 only applies to the DataNet wireless system. If using another system, proceed to 4.6.2. Select the Notifications Setup tab. Select one online DataNet logger from the device list. This logger must already be configured with alarm levels defined in the Alarm Setup.	Verify that for the selected logger, the Battery and Reception alarm check boxes are enabled, as well any check boxes for any other input for which an alarm level has been configured in the Alarm Setup process.	
4.6.1.1	Select the Battery Alarm check box. Click Contacts and select the contact who should receive e-mail notification of a low battery alarm. Click Close .	Verify that when the battery level goes below 10% on the logger tool tip in Map View, an e-mail notification is received by the selected contact.	
4.6.1.2	Select the Reception Alarm check box. Click Contacts and select the contact who should receive e-mail notification of a low reception alarm. Click Close .	Verify that when the logger goes offline an e-mail notification is received by the selected contact. Verify that when the logger goes back online an e-mail notification is also received by the selected contact.	





Test #	Test Description	Expected Result	Result
4.6.1.3	For at least one of the logger inputs for which an alarm level has been defined, select the check box for Low, Pre-Low, Pre-High or High alarms. Also select the Normalized check box. Click Contacts and select the contact who should receive alarm e-mail notification. Click Close.	Verify that when the logger breaches the defined alarm threshold, an e-mail notification is received by the selected contact. Verify that when the logger value is normalized (not in alarm state), an e-mail notification is also received by the selected contact.	Kesuit
4.6.2	Note: Test 4.6.2 applies to the DaqLink, MicroLite, MicroLogPRO II and PicoLite systems. If using DataNet, proceed to 4.6.1. Select the Notifications Setup tab. Select one online logger from the device list. This logger must already be configured with alarm levels defined in the Alarm Setup.	Verify that for the selected logger, at least one check box for a logger input, for which an alarm level has been configured, is enabled.	
4.6.2.1	For at least one of the logger inputs for which an alarm level has been defined, select the check box for Low, Pre-Low, Pre-High or High alarms. Also select the Normalized check box. Click Contacts and select the contact who should receive alarm e-mail notification. Click Close.	Verify that when the logger breaches the defined alarm threshold, an e-mail notification is received by the selected contact. Verify that when the logger value is normalized (not in alarm state), an e-mail notification is also received by the selected contact.	



Test #	Test Description	Expected Result	Result
4.7	Select SMS Alarm	Verify that the SMS Alarm	rtocan
	Notifications.	Notifications dialog is launched.	
4.7.1	Note: Test 4.7.1 only	Verify that for the selected	
	applies to the DataNet	logger, the Battery and	
	wireless system. If using	Reception alarm check boxes	
	another system, proceed to	are enabled, as well any check	
	4.7.2.	boxes for any other input for	
		which an alarm level has been	
	Select the Notifications	configured in the Alarm Setup	
	Setup tab.	process.	
	Select one online DataNet		
	logger from the device list.		
	This logger must already		
	be configured with alarm		
	levels defined in the Alarm		
4744	Setup.	Markedan to be the best and	
4.7.1.1	Select the Battery Alarm	Verify that when the battery	
	check box. Click Contacts	level goes below 10% on the	
	and select the contact who should receive SMS	logger tool tip in Map View, an e-mail notification is received by	
	notification of a low battery	the selected contact.	
	alarm. Click Close .	the selected contact.	
4.7.1.2	Select the Reception Alarm	Verify that when the logger goes	
	check box. Click Contacts	offline an SMS notification is	
	and select the contact who	received by the selected	
	should receive SMS	contact.	
	notification of a low	Verify that when the logger goes	
	reception alarm. Click	back online an SMS notification	
	Close.	is also received by the selected	
		contact.	
4.7.1.3	For at least one of the	Verify that when the logger	
	logger inputs for which an	breaches the defined alarm	
	alarm level has been	threshold, an SMS notification is	
	defined, select the check	received by the selected	
	box for Low, Pre-Low, Pre-	contact.	
	High or High alarms. Also select the Normalized	Verify that when the logger	
	check box.	value is normalized (not in alarm state), an SMS notification is	
	CHECK DUX.	also received by the selected	
	Click Contacts and select	contact.	
	the contact who should	Contact.	
	receive alarm SMS		
	notification. Click Close .		
	Hountation. Ollor Close.		





Test #	Test Description	Expected Result	Result
4.7.2	Note: Test 4.7.2 applies to the DaqLink, MicroLite, MicroLogPRO II and	Verify that for the selected logger, at least one check box for a logger input, for which an	
	PicoLite systems. If using DataNet, proceed to 4.7.1.	alarm level has been configured, is enabled.	
	Select the Notifications Setup tab. Select one online logger from the device list. This logger must already be configured with alarm levels defined in the Alarm Setup.		
4.7.2.1	For at least one of the logger inputs for which an alarm level has been defined, select the check box for Low, Pre-Low, Pre-High or High alarms. Also select the Normalized check box. Click Contacts and select the contact who should	Verify that when the logger breaches the defined alarm threshold, an SMS notification is received by the selected contact. Verify that when the logger value is normalized (not in alarm state), an SMS notification is also received by the selected contact.	
4700	receive alarm SMS notification. Click Close .	Marke that use or that I are a	
4.7.2.2	For at least one of the logger inputs for which an alarm level has been defined, select the check box for Low, Pre-Low, Pre-High or High alarms. Also select the Normalized check box.	Verify that when the logger breaches the defined alarm threshold, an SMS notification is received by the selected contact. Verify that when the logger value is normalized (not in alarm state), an SMS notification is also received by the selected	
	Click Contacts and select the contact who should receive alarm SMS notification. Click Close .	contact.	
4.8	Select Firmware Update Center. Enter the system password (default is 1234).	Verify that the <i>Firmware Update</i> Center dialog is launched.	
	Note: Ensure a copy of the logger firmware file is located in the DataSuite root directory: firmware.dfw.		





Test #	Test Description	Expected Result	Result
4.8.1	Perform a firmware update on all online units on the network. Select the <i>Update</i> check box next to each of the units listed in the dialog.	Verify that the firmware update process is performed on each of the units (never more than two in parallel).	
4.8.2	If the firmware version was higher than the previous firmware installed on the units, check the Firmware Version listed for each unit.	Verify that the firmware version matches the version listed in the <i>Available Firmware Versions</i> section and that the unit Status is <i>No Update Required</i> .	

5 - Devices Menu

Test #	Test Description	Expected Result	Result
5.1	Click Detect Device with at least one data logger connected to the computer.	Verify that the <i>Detect Device</i> dialog opens and searches for devices connected to the computer.	
5.2	Click Stop All with at least one data logger connected to the computer and in Run mode (logger icon is green or red).	Verify that all loggers that were running before the test are now in Stop mode.	
5.3	Click Run All with at least one data logger connected to the computer and in Stop mode (logger icon is grey).	Verify that all loggers that were in Stop mode before the test are now running.	



6 - Analysis Menu

Test #	Test Description	Expected Result	Result
6.1	FO Pasteurization	Verify that the data set is opened	
		in the History View.	
	Go to File > Open and open		
	the data set of at least one		
	data logger measuring		
	temperature.		
6.1.1	Select Functions'	Verify that the FO Pasteurization	
	Parameters and ensure the	level is added to the graph.	
	displayed parameters are correct.	Histogram Settings dialog opens.	
	Correct.		
	Then, select a temperature		
	plot on the graph.		
	Select FO Pasteurization		
	from the Analysis menu.		
6.2	Dew Point	Verify that the data set is opened	
		in the History View.	
	Go to File > Open and open		
	the data set of at least one		
	data logger measuring temperature and relative		
	humidity.		
6.2.1	Select a temperature or	Verify that the Dew Point plot is	
	humidity plot on the graph.	added to the graph.	
	Select Dew Point from the		
	Analysis menu.		
6.3	Histogram	Verify that the data set is opened	
	0 1 57 0	in the History View.	
	Go to File > Open and open the data set of at least one		
6.3.1	data logger. Select a plot on the graph	Verify that the Histogram was	
0.5.1	and select Histogram from	created according to the defined	
	the Analysis menu.	settings.	
		j	
	Enter the relevant Histogram		
	settings and click OK .		
6.4	Mean Kinetic Temperature	Verify that the data set is opened	
	Go to File > Open and open	in the History View.	
	the data set of at least one		
	data logger measuring		
	temperature.		
6.4.1	Select a temperature plot on	Verify that the MKT dialog opens,	
	the graph and select MKT	and calculates the MKT status.	
	from the Analysis menu.		
	Ensure the parameters are		
	correct and click Calculate.		



Test #	Test Description	Expected Result	Result
6.4.2	Click Print and proceed with	Verify that the MKT results are	
	the print procedure	printed correctly.	
6.5	Open a data set in History	Verify that the selected data set is	
	View and select Export to	opened in an Excel file.	
	Excel.		
6.6	Open a data set in History	Verify that the selected data set is	
	View and select Export to	opened in a CSV file and was	
	CSV.	saved in the correct location.	
	In the Save As dialog enter		
	the file name and click Save		
	in the desired location.		

7 - Report Menu

Test #	Test Description	Expected Result	Result
7.1	Go to Reports > Reports Profile Manager. Enter the system password (default: 1234).	Verify that the Reports Profile Manager is launched.	
7.2	Click Create New Profile and select the Enable Report Profile checkbox.	Verify that a new profile name has been entered to the profile list on the left of the window, and that the profile settings are enabled.	



Test #	Test Description	Expected Result	Result
7.3	Define the report profile by configuring the following standard settings: • Profile Name • Report Generated By • Report Comment • Report Format – select Excel and PDF • Send Report by Email – click Generated Report and define a contact by clicking the Contacts button. • Report Type – select at least one of the options e.g. Sensors Graph • Report Time - define the time and frequency when the report should be sent e.g. Daily, or select the User Defined option to generate the report immediately. • Units – Select the units which should appear in the report. Select all listed units, or specific units. Click Save Profile when the configuration is complete. If the Report Time was set to User Defined, click the Generate Report button. Otherwise, click Close to	If the Report Time was set to User Defined, verify that the Report Generation progress bar was activated. Go to Report > Report Browser, and under the relevant Profile Name, verify that the new report is listed and includes the data in accordance with the selected Report Type and Units. If the Report Time was set to Daily, Weekly or Monthly, verify that at the defined time, the report was emailed to the preconfigured email contact and that the report includes the data in accordance with the selected Report Type and Units.	
7.4	exit the window. Ensure the Report Profile Manager window is closed, and then reopen this window. Select the Profile created in 7.3.	Verify that the profile parameters as defined in 7.3 have been saved.	



8 – Help Menu

Test #	Test Description	Expected Result	Result
8.1	Select User Guides > DataSuite.	Verify the DataSuite User Guide PDF file is opened.	
8.2	Select Check for Updates.	Verify the <i>Check for Updates</i> dialog is opened.	
8.1.1	Click Next to commence the update process.	Verify that the update application has established connection with the Fourtec server and confirms if new software or firmware is available, or if the system is currently up to date.	
8.2	Select Language.	Verify that the Language dialog is opened with at least one language pack available.	
8.3	Select Register and click on the product module.	Verify that the Validata Product Validation window opens.	
8.3.1	Click on each of the product modules being validated using this document, and including the CFR module.	Verify that each module is activated with a Serial Number or is in Trial mode.	
8.4	Click About .	 a. Verify that the About DataSuite opens. b. Verify that the DataSuite version is FDA 21 CFR Part 11 compatible, v2.0.5.0 or higher. c. Verify the link www.Fourtec.com works. 	

9 - Upper Toolbar Icons

Test #	lcon	Test Description and Expected Result	Result
9.1	Open File	Click this icon and verify the <i>Open Data Files</i> dialog opens.	
9.2	Map View	Click this icon and verify the Map View is displayed in the main window.	
9.3	Sensor View	Click this icon and verify the Sensor View is displayed in the main window.	
9.4	History View	Click this icon and verify the History View is displayed in the main window.	
9.5	Run All	Click this icon with at least one logger connected and in Stop mode. Verify that the logger is now in Run mode.	
9.6	Stop All	Click this icon with at least one logger connected and in Run mode. Verify that the logger is now in Stop mode.	



Test #	lcon	Test Description and Expected Result	Result
9.7	Alarm Mute/Unmute	Click the Mute icon and verify when an alarm is activated the software alarm is muted (through the computer speakers).	
		Click the Unmute icon and verify when an alarm is activated the software alarm is muted (through the computer speakers).	
9.8	e-mail Alarm Notifications	Click the icon and verify the <i>e-mail</i> Alarm Notifications dialog opens.	
9.9	SMS Alarm Notifications	Click the icon and verify the SMS Alarm Notifications dialog opens.	
9.10	GSM modem indicators	Connect the GSM modem according to section 4.9 and verify the icon is green when the modem is connected. Verify the icon is grey when the modem is disconnected.	
9.11	Alarm Reason	Create an alarm condition with at least one logger. The Alarm Reason icon will then flash red indicating there is an alarm which must be assigned a Reason (a CFR requirement). Click the icon and verify that each alarm that was recorded on the logger is listed and requiring a reason. Provide all requested reasons and verify that the icon is now disabled.	
9.12	Temperature - Celsius	Toggle the Celsius icon and ensure all online temperature readings are displayed in C.	
9.13	Temperature - Fahrenheit	Toggle the Fahrenheit icon and ensure all online temperature readings are displayed in F.	
9.14	Report Profile Manager	Click the Report Profile Manager icon and enter the system password (default: 1234). Verify that the dialog opens will all previously created profiles saved.	
9.15	Report Browser	Click the Report Browser icon and verify that the dialog opens, listing all previously generated reports.	





10 - Graph Toolbar

This section tests the Graph toolbar which is available on the Graph tab in History View and Online Graph view. Icons specific to each view are noted. To fully test the Graph toolbar, open the data set of at least one logger via the **File > Open** menu.

Test #	Icon	Test Description	Expected Result	Result
10.1	Data Map (in History View only)	Toggle the Data Map icon.	Verify the Data Map is removed/added from the main window left pane.	
10.2	Plot Legend (in Online View only)	Toggle the Plot Legend icon.	Verify the plot legend is removed/added from the Online Graph view.	
10.3	Auto scale	a. Zoom in on an area of the graph.b. Click the Auto scale icon	Verify that the graph is restored and displayed in full.	
10.4	Zoom in	 a. Click the Zoom In icon. b. Click down and hold the left mouse button and drag the Zoom In cursor over the area of the graph to be zoomed. c. Release the left mouse button to set the zoom area. 	Verify that the selected area of the graph is zoomed in.	
10.5	Pan graph	a. Click the Pan icon. b. Place the <i>Pan</i> cursor over the graph, hold down the left mouse button and proceed to pan the graph up, down, left and right.	Verify that the graph pans up, down, left and right.	
10.6	First cursor	 a. Click the First Cursor icon. b. Drag the graph cursor to any coordinate on the graph. 	a. Verify the graph cursor is displayed.b. Verify that the chosen coordinate is displayed in the data pane underneath the graph.	



Test #	Icon	Test Description	Expected Result	Result
10.7	Second cursor	 a. Click the Second Cursor icon. b. Drag the graph cursor to any coordinate on the graph. 	 a. Verify the second graph cursor is displayed. b. Verify that the chosen coordinate is displayed in the data pane underneath the graph. 	
10.8	Grid	Toggle the Grid icon.	Verify the grid lines are added/removed from the graph.	
10.9	Time Stamps	Note: Skip this test if using the DataNet or DaqLink systems. Ensure that at least one data set is opened in History View, which includes time stamps marked on the logger memory. The time stamps should be visible on the graph plot. Click the Time Stamps icon once, and then click the icon a second time.	Verify that the time stamps are hidden from the graph plot when the icon is pressed, and are then shown when the icon is pressed a second time.	
10.10	Add Custom View (in History View only)	Click the Add Custom View icon.	Verify the customized graph view is added to the Data Map.	
10.11	Copy Graph	Click the Copy Graph icon.	Open a word processing application such as Microsoft Office Word, and verify that the copied graph can be pasted into the document.	
10.12	Graph Properties	Click the Graph Properties icon.	Verify the <i>Graph Properties</i> dialog is opened.	
10.12.1		In the Axis Scaling tab, unselect the Autoscale check box and enter the minimum and maximum time and date for the specific date set. Click OK .	Verify that the scale of the displayed graph is according to the time scale defined.	





Test #	Icon	Test Description	Expected Result	Result
10.12.2		In the Axis Scaling tab, select the Group Plots by Unit check box and select a specific axis. Click OK .	Verify that the graph axis is defined according to the selected axis.	
10.12.3		In the Style tab, unselect the Use default line properties check box. Select a specific axis, color and line width. Click OK .	Verify that the line on the graph is displayed according to the defined settings.	
10.13	Export to Excel	Click the Export to Excel icon.	Verify that the selected data set is opened in an Excel file.	
10.14	Print S	Click the Print icon. In the Print dialog select the relevant printer and click OK .	Verify the <i>Print</i> dialog is opened and that the graph is printed.	

11 - Table View

This section tests the Table view which is available in the Table tab in History View and Online view.

To fully test the table in History View, open the data set of at least one logger via the **File > Open** menu.

To fully test the table in Online View, ensure at least one logger is detected by DataSuite and is running.

Test #	Test Description	Expected Result	Result
11.1	In History View, click the Table	Verify the <i>Print Table</i> dialog is	
	tab. Click the <i>Print</i> icon.	opened.	
11.1.1	In the <i>Print Table</i> dialog, select	Verify the <i>Print</i> dialog is opened.	
	the relevant data set to be		
	printed using the <i>From</i> and <i>To</i>		
	drop-down menus.		
	Click OK .		
11.1.2	In the Print dialog select the	Verify that the table is printed	
	relevant printer and click OK .	according to the defined data set.	
11.2	In Online Graph view, click the	Verify the <i>Print Table</i> dialog is	
	Table tab. Click the Print icon.	opened.	
11.2.1	In the <i>Print Table</i> dialog, select	Verify the <i>Print</i> dialog is opened.	
	the relevant data set to be		
	printed using the <i>From</i> and <i>To</i>		
	drop-down menus.		
	Click OK .		
11.2.2	In the Print dialog select the	Verify that the table is printed	
	relevant printer and click OK .	according to the defined data set.	
11.3	Display the online data from a	Verify the logger data is updated	
	running logger and select the	in the Table view in real-time,	
	Table tab.	according to the logger	
		transmission time.	





Test #	Test Description	Expected Result	Result
11.4	Time Stamps Note: Skip this test if using the DataNet or DaqLink systems. Ensure that at least one data set is opened in History View, which includes time stamps marked on the logger memory. The time stamps should be visible in the table column title Comment. Click the Time Stamps icon once, and then click the icon a second time.	Verify that only the time stamps are displayed in the table when the icon is first pressed, and then all samples are displayed again when the icon is pressed a second time.	

12 - Statistics View

This section tests the Statistics view which is available in the Statistics tab in History View and Online Graph view.

To fully test the table in Statistics View, open the data set of at least one logger via the **File > Open** menu.

To fully test the Statistics in Online View, ensure at least one logger is detected by DataSuite and is running.

Test #	Test Description	Expected Result	Result
12.1	In History View, click the Statistics tab. Click the Print icon.	Verify the <i>Print</i> dialog is opened.	
12.1.1	In the <i>Print</i> dialog select the relevant printer and click OK .	Verify that the statistics are printed according to the statistics displayed in the <i>Statistics</i> tab.	
12.2	In Online Graph view, click the Statistics tab. Click the Print icon.	Verify the <i>Print</i> dialog is opened.	
12.2.1	In the <i>Print</i> dialog select the relevant printer and click OK .	Verify that the statistics are printed according to the statistics displayed in the <i>Statistics</i> tab.	
12.3	Display the online data from a running logger and select the Statistics tab.	 a. Verify the Statistics start and end times correspond to the first and last sample time in the Table tab. b. Verify the number of samples corresponds to the number of samples listed in the <i>Table</i> tab. 	



13 - Map View / Logger Configuration

This section tests all functionality available in Map View, including the Map View icons functionality.

Test #	Test Description	Expected Result	Result
13.1	Map View Background		
13.1.1	Double-click the Map View background to launch the Open dialog. Browse to a new background image. Select this image and click Open .	Verify the image is displayed as the new Map View background.	
13.1.2	Right-click the Map View background and select Load Wallpaper. The <i>Open</i> dialog is launched. Browse to a new background image. Select this image and click Open .	Verify the image is displayed as the new Map View background.	
13.1.3	Right-click the Map View background and select Reset Wallpaper .	Verify the default DataSuite background image is displayed.	
13.1.4	With at least logger icon visible in the Map View, right-click the Map View background and select Display All Units' Names.	Verify that each logger icon now has a label indicating the unit's name.	
13.2		Skip this test if not using the DataNet	svstem)
13.2.1	Connect the DataNet Receiver to the computer and switch the Receiver on.	Verify that the Receiver icon in the Map View is displayed in Connected (green) status.	oy otom,
13.2.2	Ensure a copy of the DataNet firmware is located in the DataSuite root directory. Right-click the Receiver icon and select Update Firmware . Enter the password and confirm firmware update.	 a. Verify that the firmware update process is performed on the Receiver. b. Following the firmware update, confirm the firmware version in the Receiver tooltip matches the firmware file that was updated. 	
13.2.3	Right-click the Receiver icon and select Lock Network . Take a DataNet data logger DNL910 or DNL920 and select the Leave Network option on the logger menu. Rescan for new networks.	Verify that the Receiver network is not found during the scan network procedure.	
13.2.4	Right-click the Receiver icon and select Form New Network.	Verify that the Receiver forms a new network and that the network ID has changed in the Receiver tool tip in Map View and on the Receiver LCD menu.	



Test # Test Description Expected Result	Result
13.2.5 Right-click the Receiver icon Look at the Receiver icon tool tip	
and select Refresh Network and verify that the Refresh	
Connections. Network Connections command	
is in queue and is processed by	
the Receiver.	
13.2.6 Right-click the Receiver icon Verify that the network paths	
and select Show Network between all online devices in the	
Paths. network are displayed as a	
green, yellow or red path.	
13.2.7 Right-click the Receiver icon Verify the Receiver Setup dialog	
and select Setup . is opened.	
13.2.7.1 Change the Receiver Network Verify the Receiver Network	
Name and click Setup and Name has been changed by	
Run. looking at the Receiver tool-tip.	
13.2.8 Place the mouse cursor over Verify the tooltip contains the	
the Receiver icon to display following information:	
the tooltip. a. Receiver Part Number:	
DNR900	
b. Receiver Network Name	
c. Receiver Serial Number -	
matching the Serial Number	
on the rear of the unit casing	
d. Network ID – matching the	
network ID on the Receiver	
LCD menu	
e. Version – matching the	
firmware version displayed	
on the Receiver LCD menu	
 13.3 DataNet Repeater Icon (Note: Skip this test if not using the DataNet s 13.3.1 Connect a Repeater to the Verify the online Repeater icon 	ystem)
DataNet network. is displayed in the Map View.	
13.3.2 Right-click the Repeater icon Verify the Setup dialog is	
and select <i>Setup</i> . opened. 13.3.2.1 Change the Repeater name Verify the Repeater name has	
13.3.2.1 Change the Repeater name Verify the Repeater name has and click Setup and Run . been changed by looking at the	
Repeater tool-tip.	
13.3.3 Right-click the Repeater icon Verify the Repeater unit emits a	_
and select Call Unit (Beep) . beep for several seconds.	
13.3.4 Right-click the Repeater icon Verify the Repeater leaves the	
and select Leave Network . network and the icon disappears	
Enter the default password. from the Map View.	
13.3.5 Ensure a copy of the DataNet a. Verify that the firmware	
firmware is located in the update process is performed	
DataSuite root directory. on the Repeater.	
Right-click the Repeater icon b. Following the firmware	
and select Update Firmware . update, confirm the firmware	
and select Update Firmware . update, confirm the firmware	
and select Update Firmware . update, confirm the firmware Enter the password and version in the Repeater	
and select Update Firmware . Enter the password and confirm firmware update. update, confirm the firmware version in the Repeater tooltip matches the firmware	
and select Update Firmware . Enter the password and confirm firmware update. update, confirm the firmware version in the Repeater tooltip matches the firmware file that was updated.	



Test #	Test Description	Expected Result	Result
13.3.7	Place the mouse cursor over	Verify the tooltip contains the	างธอนาเ
10.01.	the online Repeater icon to	following information:	
	display the tooltip.	a. Network Name	
		b. Repeater Serial Number -	
		matching the Serial Number	
		on the rear of the unit casing	
		c. Repeater name	
		d. Battery Level/Charging	
		status	
		e. Reception Quality	
		f. Version – matching the	
		firmware version displayed	
		on the Receiver LCD menu	
13.4		ip this test if not using the DataNet	system)
13.4.1	Connect a logger to the	Verify the online logger icon is	
	network.	displayed in the Map View.	
13.4.2	Right-click the logger icon and	a. Verify the Setup dialog is	
	select Setup . Select the	opened.	
	Device Setup tab.	b. Verify the Serial Number and	
		Firmware version are correct	
40.404	a la tha Camarant field auton	in the Device Setup tab.	
13.4.2.1	a. In the <i>Comment</i> field, enter	Once the logger has been	
	the name of the logger. b. Select the relevant	configured:	
	b. Select the relevant Sampling Rate.	Verify the Comment has been updated in the logger	
	c. Select the relevant	tooltip.	
	Transmission interval.	b. Verify the logger is sampling	
	d. Select 0 average points.	at the defined sampling rate.	
	e. Select the relevant	c. Verify the logger is	
	Temperature unit.	transmitting at the defined	
	f. Select the relevant inputs	Transmission interval.	
	to be measured. If	d. If a temperature sensor was	
	selecting In-1, 2, 3 or 4,	defined, verify the value is	
	change the custom sensor	displayed in the correct unit	
	name for the selected	in the logger tooltip.	
	Sensor type.	e. Verify the custom sensor	
	g. Click Setup and Run .	name is displayed in the	
		logger tooltip and in the	
		Sensor View.	
13.4.3	Following 13.4.2.1, right-click	a. Verify the <i>Setup</i> dialog is	
	the logger icon and select	opened.	
	Setup . Select the <i>Alarm Setup</i>	b. Verify the same inputs	
	tab.	configured in 10.4.2.1 are	
		enabled in the Alarm Setup	
		tab.	





Test #	Test Description	Expected Result	Result
Test # 13.4.3.1	a. Select the relevant Alarm delay b. Select the relevant Alarm duration c. For at least one of the enabled sensor inputs, select at least one of the Low, Pre-Low, Pre-High and High alarm check boxes. Enter the relevant value in the alarm field. d. Click Setup and Run.	Expected Result Create the alarm conditions as defined in this test and verify the following: a. Logger alarm is activated after the defined alarm delay. b. Logger icon displays red alarm status c. Logger emits audible alarm for the defined duration d. DataSuite software alarm is audible (ensure the Alarm icon is unmuted in the upper toolbar)	Result
13.4.4	Place the mouse cursor over the online logger icon when the logger is running, to display the tooltip.	Verify the tooltip contains the following information: a. Logger Part Number b. Logger Serial Number - matching the Serial Number on the rear of the unit casing c. Logger Comment d. Battery Level/Charging status e. Reception Quality f. Version – matching the firmware version displayed on the Logger LCD menu g. Last Sample Time – for each of the configured inputs	
13.4.5	With the logger running, right- click the logger icon and select Display Data .	Verify the online Graph View is opened and that the logger data is updated in real-time.	
13.4.6	Right-click the logger icon and select Download Data .	Verify the data is downloaded from the logger memory to the online Graph View. When the logger is downloading the data, the Logger icon in Map View will display a green progress circle as follows:	
13.4.7	Right-click the logger icon and select Cancel Download during the download process.	Verify the data download is halted.	
13.4.8	Right-click the logger icon and select Reset Alarm while the logger is in alarm status.	Verify the logger icon changes from alarm status to normal status. If the logger is still in alarm status then the icon will immediately revert back to alarm status.	





Test #	Test Description	Expected Result	Result
13.4.9	Right-click the logger icon and	Verify the logger unit emits a	
	select Call Unit (Beep) (for	beep for several seconds.	
	DNL910 and DNL920 only)		
13.4.10	Ensure a copy of the DataNet	 a. Verify that the firmware 	
	firmware is located in the	update process is performed	
	DataSuite root directory.	on the logger.	
	Right-click the logger icon and	b. Following the firmware	
	select Update Firmware.	update, confirm the firmware	
	Enter the password and	version in the logger tooltip	
	confirm firmware update.	matches the firmware file	
40.4.4	Did to the total of the total o	that was updated.	
13.4.11	Right-click the logger icon and	Verify the logger has stopped	
13.4.12	select Stop .	running.	
13.4.12	With the logger in Stop mode, right-click the logger icon and	Verify the logger Calibration	
	select Calibration > Calibrate.	dialog is opened.	
	Enter the system password.		
13.4.13	Select the relevant sensor from	Verify the <i>Calibration</i> and	
13.4113	the Sensor drop-down menu.	Logger Data panes are enabled.	
	Select the inputs to be	209ger Data Paries are shabled.	
	calibrated (All inputs or a		
	specific input) and click Setup.		
13.4.14	Calibrate the input selected in	Verify the Logger Data pane	
	13.4.13. Click Send	displays the correctly calibrated	
	Calibration at the end of the	values.	
	process.		
13.4.15	Repeat 13.4.13 and 13.4.14 for	For each input, verify the Logger	
	each of the inputs to be	Data pane displays the correctly	
40.440	calibrated.	calibrated values.	
13.4.16	With the logger in Stop mode,	Verify the calibration file was	
	right-click the logger icon and select Calibration > Save	saved in the correct location.	
	Calibration.		
	Enter the system password.		
	In the Save As dialog, enter		
	the file name and click Save in		
	the desired location.		
13.4.17	With the logger in Stop mode,	Verify the software loads the	
	right-click the logger icon and	calibration file into the logger	
	select Calibration > Load	memory by looking at the logger	
	Calibration.	tooltip Command Queue	
	Enter the system password.	Process.	
	In the <i>Open</i> dialog browse to		
	the location of the calibration		
	file to be loaded, and click		
12 4 40	Open.	Varify the default calls settles	
13.4.18	With the logger in Stop mode,	Verify the default calibration	
	right-click the logger icon and select Calibration > Restore	values were restored to the	
		logger memory.	
	Factory Calibration Defaults. Enter the system password.		
	Linei ine system password.		





Test #	Test Description	Expected Result	Result
13.4.19	Right-click the logger icon and	Verify the logger leaves the	
	select Leave Network.	network and the icon disappears	
		from the Map View.	
13.4.20	With the logger in Stop mode,	Verify the logger icon changes to	
	right-click the logger icon and	Run status and the logger tooltip	
	select Run.	and online graph displays real-	
		time values.	
13.4.21	Right-click the logger icon and	Verify the network path between	
	select Show Network Path.	the logger and the parent node	
		is displayed.	
13.4.22	Right-click the logger icon and	Verify the logger tooltip displays	
	select Enable Short range	SR Repeater Mode after the	
	Repeater Mode (only for	logger part number.	
	DNL910 and DNL920).	33- 1	
	Enter the system password.		
13.4.22.1	Right-click the logger icon and	Verify the logger tooltip no	
	select Disable Short range	longer displays SR Repeater	
	Repeater Mode (only for	Mode after the logger part	
	DNL910 and DNL920).	number.	
	Enter the system password.		
13.5		kip this test if not using the DaqLink	svstem)
13.5.1	Connect a logger to the	Verify the online logger icon is	
	computer.	displayed in the Map View.	
13.5.2	Right-click the logger icon and	a. Verify the Setup dialog is	
	select Setup . Select the	opened.	
	Device Setup tab.	b. Verify the Serial Number and	
	,	Firmware version are correct	
		in the Device Setup tab.	
13.5.2.1	a. In the Comment field, enter	Once the logger has been	
	the name of the logger.	configured:	
	b. Select the relevant	a. Verify the Comment has	
	Sampling Rate.	been updated in the logger	
	c. Select the relevant <i>Memory</i>	tooltip.	
	State.	b. Verify the logger is sampling	
	d. Select 0 average points.	at the defined sampling rate.	
	e. Select the relevant	c. Verify the logger data is	
	Temperature unit.	being updated in real-time on	
	f. Select the relevant inputs	the Graph View if memory	
	to be measured. If	state was set to Online	
	selecting In-1, 2, 3 or 4,	Mode.	
	change the custom sensor	d. If a temperature sensor was	
	name for the selected	defined, verify the value is	
	Sensor type.	displayed in the correct unit	
	g. Click Setup and Run .	in the logger tooltip.	
	3 2 2 2 2 2 2 4 2 2 2 2 2 2 2 2 2 2 2 2	e. Verify the custom sensor	
		name is displayed in the	
		logger tooltip and in the	
		Sensor View.	
	<u> </u>	OCHOOL VICW.	





Test #	Test Description	Expected Result	Result
13.5.3	Following 13.5.2.1, right-click the logger icon and select Setup . Select the <i>Alarm Setup</i> tab.	 a. Verify the Setup dialog is opened. b. Verify the same inputs configured in 13.5.2.1 are enabled in the Alarm Setup tab. 	
13.5.4	 a. Select the relevant Alarm delay b. Select the relevant Alarm duration c. For at least one of the enabled sensor inputs, select at least one of the Low, Pre-Low, Pre-High and High alarm check boxes. Enter the relevant value in the alarm field. d. Click Setup and Run. Place the mouse cursor over the online logger icon when the logger is running, to display the 	Create the alarm conditions as defined in this test and verify the following: a. Logger alarm is activated after the defined alarm delay. b. Logger icon displays red alarm status c. Logger emits audible alarm for the defined duration d. DataSuite software alarm is audible (ensure the Alarm icon is unmuted in the upper toolbar) Verify the tooltip contains the following information: a. Logger Part Number	
	tooltip.	 b. Logger Serial Number - matching the Serial Number on the rear of the unit casing c. Logger Comment d. Battery Level/Charging status e. Version – matching the firmware version displayed on the Logger LCD menu f. Last Sample Time – for each of the configured inputs 	
13.5.5	With the logger running, right- click the logger icon and select Display Data .	Verify the online Graph View is opened and that the logger data is updated in real-time.	
13.5.6	Right-click the logger icon and select Download Data .	Verify the data is downloaded from the logger memory to the online Graph View. When the logger is downloading the data, the Logger icon in Map View will display a green progress circle as follows:	
13.5.7	Right-click the logger icon and select Cancel Download during the download process.	Verify the data download is halted.	





Test #	Test Description	Expected Result	Result
13.5.8	Right-click the logger icon and	Verify the logger icon changes	rtoodit
10.0.0	select Reset Alarm while the	from alarm status to normal	
	logger is in alarm status.	status. If the logger is still in	
	logger io in diami statue.	alarm status then the icon will	
		immediately revert back to alarm	
		status.	
13.5.9	Ensure a copy of the DagLink	Verify that the firmware update	
101010	firmware is located in the	process is performed on the	
	DataSuite root directory.	logger.	
	Right-click the logger icon and	Following the firmware update,	
	select Update Firmware.	confirm the firmware version in	
	Enter the password and	the logger tooltip matches the	
	confirm firmware update.	firmware file that was updated.	
13.5.10	Right-click the logger icon and	Verify the logger has stopped	
	select Stop.	running.	
13.5.11	With the logger in Stop mode,	Verify the logger Calibration	
	right-click the logger icon and	dialog is opened.	
	select Calibration > Calibrate.		
	Enter the system password.		
13.5.12	Select the relevant sensor from	Verify the <i>Calibration</i> and	
	the Sensor drop-down menu.	Logger Data panes are enabled.	
	Select the inputs to be		
	calibrated (All inputs or a		
	specific input) and click Setup .		
13.5.13	Calibrate the input selected in	Verify the Logger Data pane	
	13.5.3.1. Click Send	displays the correctly calibrated	
	Calibration at the end of the	values.	
13.5.14	process.	For each input verify the Lagger	
13.3.14	Repeat 13.5.12 and 13.5.13 for each of the inputs to be	For each input, verify the Logger	
	calibrated.	Data pane displays the correctly calibrated values.	
13.5.15	With the logger in Stop mode,	Verify the calibration file was	
13.3.13	right-click the logger icon and	saved in the correct location.	
	select Calibration > Save	Saved in the confect location.	
	Calibration.		
	Enter the system password.		
	In the Save As dialog, enter		
	the file name and click Save in		
	the desired location.		
13.5.16	With the logger in Stop mode,	Verify the software loads the	
	right-click the logger icon and	calibration file into the logger	
	select Calibration > Load	memory by looking at the logger	
	Calibration.	tooltip Command Queue	
	Enter the system password.	Process.	
	In the Open dialog browse to		
	the location of the calibration		
	file to be loaded, and click		
	Open.		





Test #	Test Description	Expected Result	Result
13.5.17	With the logger in Stop mode,	Verify the default calibration	1100000
	right-click the logger icon and	values were restored to the	
	select Calibration > Restore	logger memory.	
	Factory Calibration Defaults.		
	Enter the system password.		
13.5.18	With the logger in Stop mode,	Verify the logger icon changes to	
	right-click the logger icon and	Run status and the logger tooltip	
	select Run.	and online graph displays real- time values.	
13.6	MicroLite/MicroLogPPO II/Pice	oLite Logger Icon (<i>Note:</i> Skip this	tost if not
13.0	using these systems)	ocite cogger icon (Note: Skip tills	lest II Hot
13.6.1	Connect a logger to the	Verify the online logger icon is	
101011	computer.	displayed in the Map View.	
13.6.2	Right-click the logger icon and	a. Verify the Setup dialog is	
	select Setup . Select the	opened.	
	Properties tab.	b. Verify the Serial Number and	
		Firmware version are correct	
		in the Properties tab.	
13.6.2.1	a. In the <i>Comment</i> field, enter	See 13.6.2.4	
	the name of the logger.		
	b. Select the relevant		
	Sampling Rate.		
	c. Select 0 average points.d. Select the relevant		
	Temperature unit.		
13.6.2.2	Select the <i>Sensors</i> tab.	See 13.6.2.4	
	Select the relevant inputs to be		
	measured.		
13.6.2.3	Select the Display tab.	See 13.6.2.4	
	Ensure Always On is selected.		
	(Note: Skip this test for		
40.004	PicoLite)	Once the leavest been been	
13.6.2.4	Click Setup and Run.	Once the logger has been	
		configured: a. Verify the Comment has	
		been updated in the logger	
		tooltip.	
		b. Verify the logger is sampling	
		at the defined sampling rate.	
		c. If a temperature sensor was	
		defined, verify the value is	
		displayed in the correct unit	
10.00		in the logger tooltip.	
13.6.3	Following 13.6.2.4, right-click	a. Verify the Setup dialog is	
	the logger icon and select	opened.	
	Setup . Select the <i>Sensors</i> tab.	b. Verify the same inputs	
		configured in 13.6.2.2 are enabled in the Sensors tab.	





Test #	Test Description	Expected Result	Result
13.6.3.1	 a. Select the relevant Alarm delay b. For at least one of the enabled sensor inputs, select the Alarm checkbox and enter the relevant Low or High value in the alarm field. c. Click Setup and Run. 	Create the alarm conditions as defined in this test and verify the following: a. Logger alarm is activated after the defined alarm delay. b. Logger icon displays red alarm status c. DataSuite software alarm is audible (ensure the Alarm icon is unmuted in the upper toolbar)	
13.6.4	Place the mouse cursor over the online logger icon when the logger is running, to display the tooltip.	Verify the tooltip contains the following information: a. Logger Part Number b. Logger Serial Number - matching the Serial Number on the rear of the unit casing c. Logger Comment d. Battery Level e. Version – matching the firmware version displayed on the Logger LCD menu (if relevant) f. Last Sample Time – for each of the configured inputs	
13.6.5	With the logger running, right- click the logger icon and select Display Data .	Verify the online Graph View is opened and that the logger data is updated in real-time.	
13.6.6	Right-click the logger icon and select Download Data .	Verify the data is downloaded from the logger memory to the online Graph View. When the logger is downloading the data, the Logger icon in Map View will display a green progress circle.	
13.6.7	Right-click the logger icon and select Cancel Download during the download process.	Verify the data download is halted.	
13.6.8	Ensure a copy of the logger firmware is located in the DataSuite root directory. Right-click the logger icon and select Update Firmware . Enter the password and confirm firmware update.	Verify that the firmware update process is performed on the logger. Following the firmware update, confirm the firmware version in the logger tooltip matches the firmware file that was updated.	
13.6.9 13.6.10	Right-click the logger icon and select Stop . With the logger in Stop mode,	Verify the logger has stopped running. Verify the logger Calibration	
	right-click the logger icon and select Calibration > Calibrate. Enter the system password.	dialog is opened.	



Test #	Test Description	Expected Result	Result
13.6.11	Select the relevant sensor from the <i>Sensor</i> drop-down menu. Select the inputs to be calibrated (All inputs or a specific input) and click Setup .	Verify the Calibration and Logger Data panes are enabled.	
13.6.12	Calibrate the input selected in 13.6.11. Click Send Calibration at the end of the process.	Verify the Logger Data pane displays the correctly calibrated values.	
13.6.13	Repeat 13.6.11 and 13.6.12 for each of the inputs to be calibrated.	For each input, verify the Logger Data pane displays the correctly calibrated values.	
13.6.14	For the MicroLogPRO II and MicroLite only, with the logger in Stop mode, right-click the logger icon and select Calibration > Restore Factory Calibration Defaults. Enter the system password.	Verify the default calibration values were restored to the logger memory.	
13.6.15	With the logger in Stop mode, right-click the logger icon and select Run .	Verify the logger icon changes to Run status and the logger tooltip and online graph displays real- time values.	

14 - Change Password dialog

Test #	Test Description	Expected Result	Result
14.1	Open the <i>Password</i> dialog. For	Verify the <i>Password</i> dialog is	
	example, go to Tools >	opened.	
	Firmware Update Center.		
14.2	Click Change Password.	Verify the Change Password	
		dialog is opened.	
14.3	Enter the old password and then enter the new password in the <i>New</i> and <i>Confirm</i> password fields.	Verify that the new password is accepted and that the dialog originally selected in 14.1 is opened.	
	Click OK .		