

World Leaders in Computer Controlled Testing Systems for Geotechnical Engineers and Geologists

GDSLAB Software Handbook



© GDS Instruments Ltd

Contents

IN	ΓRC	DDU	ICTION	3
	Но	w to	o use this handbook	3
1.	I	NST	ALLATION	3
	1.1		GDSLAB PC Requirements	3
	1.2		How do I register my GDSLAB licence for use	3
	1.3		Software Demo	4
2.	(QUI	CK START	6
	2	2.1.:	1. How do I create a Station Configuration	6
	2	2.1.2	2. How can I visualise my system	6
	2	2.1.3	3. How do I input the specimen detail (Datastore)	7
	2	2.1.4	4. How do I setup and run a test	8
	2	2.1.	5. How do I view test data and graphs during a test	8
	2	2.1.0	5. How do I get a csv data export	9
3.	A	٩DD	ITIONAL FUNCTIONALITY	1
	3.1		Station Configuration	1
	3	3.1.3	1. How do I load a Station Configuration1	1
	3	3.1.2	2. How do I create a Station from an existing GDSLABv2 ini file1	1
	3	3.1.3	3. How do I setup my transducers to read correctly1	2
	3	3.1.4	4. How do I calibrate my transducers1	3
	3.2		Test View1	3
	3	3.2.2	1. How to display multiple axes on a graph during a test1	3
	3	3.2.2	2. How to adjust the live data that is displayed during a test1	4
	3	3.2.3	3. How to save and re-load graphs and live data templates1	4
	3.3		Test View1	5
	3	3.3.2	1. How to create a data export template for consistent results exporting1	5
4.	ŀ	٩DV	ANCED SETUP1	6
	4.1		How to hide test modules on a station that are not used or registered1	6
	4.2		How to lock a station to stop accidental or unauthorised changes1	6
	4.3		How to change the user language1	7

INTRODUCTION

How to use this handbook

This handbook is designed to be used in conjunction with the GDSLAB Video Guides and additional technical information found on the GDSLAB Video Handbook Overview page found on the GDS website <u>https://www.gdsinstruments.com/gdslab-video-handbook.html</u> which provide more detailed information on each section introduced in this handbook.

1. INSTALLATION

The latest version of the GDSLAB installation package can be downloaded from http://www.gdsinstruments.com/information/software-downloads

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/1_1.mp4</u>

	Minimum	Recommended
OS (64-bit)	Windows 10	Windows 10
CPU/Processor	Intel i3 or AMD Ryzen 3	Intel i5 or AMD Ryzen 5
GPU/Graphics	Internal graphics acceleration	Dedicated graphics card
Screen Resolution	1080p (1920x1080)	1080p (1920x1080)
Memory RAM	8GB	16GB
Available Disk Storage	256GB SSD	512GB SSD
USB Ports*	USB v2.0 or above	USB v2.0 or above

1.1 GDSLAB PC Requirements

1.2 How do I register my GDSLAB licence for use

GDSLAB is licenced for use via a licence file which will be sent to you by GDS. This licence file is linked to a specific PC for which there is a unique Hardware ID which GDS will require to generate your licence file.

Install GDSLAB and in the top right corner click on the three dots then select **About**. On the About window expand the Licence arrow at the bottom. Copy the Hardware ID shown and email this ID to GDS who will send you a corresponding licence file.



Once you have received the licence file from GDS click on Upgrade and then on Load Licence to load your licence file into GDSLAB to enable the purchased functionality.

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/1_2.mp4</u>

1.3 Software Demo

Users are able to demo GDSLAB without needing a licence. New users are able to review all of the functionality of GDSLAB and existing GDSLAB users are able to review functionality that is not included in their licence. The only thing that a user is not able to do in demo mode is to control and acquire data from a test using real hardware.

To make the experience of demoing the software more realistic GDSLAB provides a number of demo station configurations for typical test types utilising 'dummy' control and acquisition parameters to simulate test control and acquisition.

When you first open GDSLAB it will open on the System Configuration page. To load in a Demo configuration click on the Load icon on the left. The Demo configurations are located in C:\Users\Public\Documents\GDS Instruments\GDSLAB\Stations\Examples\A - Demo Systems\

🧟 605048 v2023	- o ×
Station 1	+ 🗄 🗘 :
=	Station Configuration
🗖 🖪 🔍 👌 💿 🗵 Object Display 🚽 🖪 🛃 Font size Zoo	
To get started, either load an existing configuration	
S or open system builder to define the station.	
=x When you are ready, work down the icons on the left	
export the results.	
Devel Station Configuration	
← → ∨ ↑ 🖿 = GOS Instruments > GOSUA8 > Stations > Examples > A - Demo Systems	 O [Land A - Dens Inference]
Organise + New folder	
Videos Name Data modified Type Consolidameter/DerrorPlanc 24/11/202100.55 GSC File	5 Ke / 10 / 10 / 10 / 10 / 10 / 10 / 10 / 1
v Disis 9 C DedometerDemoSt1.gec 24/11/2023 00:54 65C File	43
> 🗺 Windows (Ci) SimpleShearDemoSt1.gnc 24/11/2023 01:00 GSC File	739
mit Data (D) TrianidDemoStit.gac 24/11/2023 00.44 65C File TrianidDemoStit.gac 24/11/2023 00.44 65C File	9 940
A drivity and a drivity of the second s	
> New Waltimer	
> Beckup Drive (Sense 1 + 🔒 🏠 :
> 🚌 GDS Data Diak	E Station Configuration
> and GOS Strenge D	
Figure 1. 10 - 64	A grant of the state of the
inauatomezet.go	Desto Initiali 311 Vinual
	🔫 🚱 2) Anisel Displacement Stremi 🏚 🚱 1) Anise Load (JHC) 💠 🚱 10 (All Demonstrate Christi) 💠 🚱 1) Press Water Prossurer
	0.1000 0.0100 20.0000 5 0
	Min T Max Min Max Min Max mmod mm mmod mm mm mm mm mm mm
	🔛 2: Addid Displacement Simil 🕘 🖆 1: Addid Laad ANU 🔮 🖆 10: Gold Pressure B/Pal
	0.1 20
	10.0000 ¹⁰ -50.000 ¹⁰ -100.000 ¹⁰
	10
	Station: Triaxia/DemoSt1.asc Baady GDSiAB v2023 11.21 www.edulouteuments.com

With the Demo configuration you can set and read parameter values and go through all the steps of defining and running a list of test stages and exporting an output datafile.

CE CENTRE - CEES				0 X
Station 1			+ 8	0 :
_			7.404m	
			lest setup	
New 0 0 > 0	Test Module Advanced Leading	Name		
E	teo esercitos			
L Saturation	Set Cermentine (on)	taget 100	Optional Test Termination Conditions	looly '
Considering	Current	Use Initial Value		ancel
=X III 4 Advanced Loading	Midde Containt		Time Size Start of Stage (min)	
1.4	Set Back Pressure (6Pa) *	Target 80	Anid States (%)	
	Current 10	Use Initial Value	Audul Steams (%)	
Ċ,	Mode Constant *		And Stress (6Ps) S	
	Set Axial Displacement (mm) +	Datum 0.1	Terminate test on Nox Deviator Stress Terminate when deviator stress changes by less	
	Current 0.1	Use Initial Value	Terminate text on Mice Seress Ratio	
	Mode Cyclic -	Time (mins) 5	Terminate when effective stress ratio is detected to reduce	
	Amplitude 0.1		More	
	Specimen Temperature Control	. 04	Maintain pressures at end of test	
	Cell Temperature Control	. (Die	When stage ends. Go to next stage automatically *	
		SE GESLAR V2023		
	Maximum Excess Pore Water Pressure	Station 1		+ = • :
		-	Tort View	
		_	Test view	
		🔜 🤭 🛄 🗖	Al Layout 1/2 - Crack new data	Complete Next Stage
		R Plat	All sizes Asial Displacement (mm)	Current Stage C.A.T.
		Style		A A A A A A 4. Advanced Loading
		Series Time Sine	end Steps (s) * 0.16	
		=X Lett Y-Axis Series		
Station: TriaxialDemoSt1.gsc Test: Te	est1.gtc	Axal De	ement(mm) • 0.12	III Time Since Start of Start
		Aziati za	A2 * 01	III dami (cod (45)) - 0 (170)
		Style	linar - 0.08	iii Deen Water Stream (Strict * 15
		Inverted		M M M M M III Ausi Displacement (www) - 0.1008
		Right Y-Anis Series	8.02	III Call Presser (64) * 100
				V V V V V V (iii Cel Volume (mm ³) - 500
			10000 10000 12000 Time Since Start of Stage (al - stage 4. Advancer	1000 14000 d Loading 8ack Proserve (JPu) + (0)
		Style	Litear · ·	Back Volume (mm*) = 0
		Inverted	No * Cell Pressure Dafa) 👩 — Pore Water Pressure Dafa)	(Hertise Radial Stress (ebs) = 25
			100	Effective Avial Stress (APa) = 77.0872
			95	Deviator Stress (JPa) * S22822
				8 Value Skempton - 🖻
			90	
			90	
			0 2000 4000 6000 8000	10000 12000 14000
			Time Since Start of Stage (s) - stage 4. Advanced	lloading
		Station: Trianial	noSt1.gsc Test: Test1.gtc Stage manually stopped	GD51AB v2023 11.21 www.gdsinstruments.com

2. QUICK START

2.1.1. How do I create a Station Configuration

GDSLAB provides the user with a System Builder which is a graphical method for the user to build up their Station Configuration to match the system hardware.

🧱 GDSLA8 v2023	- 0 X
Station 1	+ 🗎 🗘 1
≡ Station (Configuration
🛄 🖻 🔍 🗘 💿 📴 Device View 🚽 🖪 🖪 Font size Zoom	Cr\GDSLAB 2023\GDSTAS STDv2.gx
Test Type Triasial • Determent •	GDS Unity Framework Loadframe GDS Unity Framework USBPAD
RW Avial Displacement 2	
Back Pressure RW Back Volume RW Back Volume	💿 0: Aulal Load 🔅 🗿 1: Pore Water
RW Cell Pressure R Pore Water Pressure	xial Displacement 2 🏚 🔁 98: Axial Velocity (Unknown) 🖐 🗕 — 🗇
	- 0 Man Max Mn ↑ -∞ 0 -0 -0
Name GDS Unity Framework Loadframe	a 2: Axial Displacement
Acquisition Sub-Type 150-1	oplacement 2 (Unknown)
Custom Calculations Constrained	Concentration (nationalizer 1158 Concentration 2 Bank Description Constrainties 1150
Name GOS Unity Framework Counters of Count	
Acquisition Sub-Type USBAD-1	1: Cell Pressure 1 0 2: Back Volume 1
Control Sub-Type	
Ma	Max MinMax MinMaxMax
Name GDS STDDPCv2 Cell	(Cell Pressure (kPa) 🗳 🔁 1: Base Pressure (kPa) 🗳 🔁 2: Back Volume (mm*) 👋
Pressure Controller US8 Acquisition Sub-Type 1	
Control Sub-Type	
in the second	
Station: GDSTAS STDv2.gsc Ready	9 gDSLAB v2023 7.14 www.gdsinstruments.com

When the software is first run the user will be presented with a series of hints taking the user through the process of selecting a Test Type, adding Devices and selecting and configuring the relevant Acquisition and Control Parameters.

For further information guiding the user through this process see the video guide <u>https://www.gdsinstruments.com/video-handbook/2_1.mp4</u>

2.1.2. How can I visualise my system

GDSLAB presents the user with three option to visualise the system configuration on the Station Configuration page.



- 1. Object Display View for those existing user familiar with GSLABv2
- 2. Device View Acquisition and Control Parameters are grouped by the Device that they are associated with. User is able to re-arrange the layout on the page by dragging Device boxes

3. Parameter View – Acquisition and Control Parameters are grouped together and can be dragged around the page to the desired configuration. The user can also load an image file around which to group the Parameters

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/2_2.mp4</u>

2.1.3. How do I input the specimen detail (Datastore)

To start a test the first step is to specify a Datastore file for all test information to be saved in. This is accessed by clicking on the Datastore icon on the hamburger menu on the left of the screen. GDSLAB stores all information to do with the specified test stages and acquired transducer data in this Datastore file, which is a complete record of the test. The Datastore file can be reopened in GDSLAB after the test at a later date to review the test stage settings and view the test results on the graphs.



An output CSV file containing the test results can be exported at any point during or after the test has been completed from the information contained in the Datastore file.

Once the Datastore file has been created the Specimen Details icon is enabled on the Hamburger menu. Click on this page and enter the Specimen dimensions. You can also record any relevant sample information in the optional fields on the left of the screen.



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/2_3.mp4</u>

2.1.4. How do I setup and run a test

Once the specimen details have been entered the Test Setup icon is enabled on the Hamburger menu. Click on this page to specify the desired test control by adding one or more test stages to the test list, selecting from the available test modules relevant to the selected Test Type.

Test modules typically comprise a set of Set Blocks to define the values of the parameters to be controlled eg. The target Cell Pressure and target Back Pressure for a Consolidation stage, and a set of Termination Conditions which will cause the test stage to terminate if triggered, eg. if a certain load has been reached, and can automatically start the next stage in the list if defined.



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/2_4.mp4</u>

2.1.5. How do I view test data and graphs during a test

Once one or more test stages have been added to the test list the Test Setup icon is enabled on the Hamburger menu.

The Test Setup page allows the user to Start, Stop and Pause test stages, move to the next test stage, and to view the progress of the test via a set of user defined graphs and current values for specified raw and calculated parameters.

The test display graphs give the user a high degree of customisation to visualise the progress of the test. Customisation options include:

- Selecting between a display layout of 1, 2 or 4 graphs on the page
- Defining any number of graphs and drag and drop those currently of interest into focus on the current display layout
- The ability to save and load different graph and current value configurations
- Plot any number of parameters on a single graph, using a single or multiple Y axes
- Easy zoom and scroll, and the ability for a zoomed graph to track new data
- Plot data for the current, all, or a selected test stage



On the right of the Test Display screen is the Live Data list where the user can select any number of raw or calculated parameters to display, in addition to the parameters plotted on the graphs.

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/2_5.mp4</u>

2.1.6. How do I get a csv data export

An output datafile containing the test results can be exported at any time during the test, or after the test has been completed by reloading the test datastore file by clicking on the Data Export icon on the Hamburger menu.

The user can select which data columns to export by dragging them across from the Available columns list to the Columns in data file list and can order them in that box as desired via drag and drop. Columns in data file list templates can be saved for re-use and imported when needed.

The user can select which test stages to include in the output datafile and set the desired data saving interval for each test stage. For convenience there is also a bulk edit feature to the set data saving for all selected test stages.

Output datafiles can be export in .gds format (Comma separated text file with .gds file extension), .csv format (Comma separated text file), and as an Excel Workbook file.

	👪 GDSL/	8 v2023		- 0 ×
Image: State Stat	Statio	a	+	8 4 8
Relations Implementation Implementa	=		Data Export	
Buck Edit Inductor Supervised Her Export • Buck Edit Inductor		Availability Program III (reply) Program III Aria Velocity (mm/s) III III Aria Velocity (mm/s) III III Aria Tore (M) III III Aria Tore (M) III IIII Aria Tore (M) III IIII Aria Tore (M) IIII IIII Control Tope (M) IIII III Control Tope (M) IIII III Control Tope (M) IIII IIII Control Tope (M) IIII IIII Control Tope (M) IIIII	Column In data Ter Imports: Column In data Ter Imports: Column In data Ter Imports: Imports: Column In data Ter Imports: Imports: Column In data Ter Imports: Imports: Column In data Imports: Im	
		Bulk Edit Indude 2 Fige Lines Interval (a) 10 File Lines Apply Apply Classified Under Classified Under Classifi	Type Metrovalia File Linear 10 Load Description 10 Load	Esport *

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/2_6.mp4</u>

3. ADDITIONAL FUNCTIONALITY

3.1 Station Configuration

3.1.1. How do I load a Station Configuration

When the software is first started or a new station is created using the + icon at the top right of the screen the user has the option to either configure the Station using the graphical System Builder or to load in a previously configured test Station file. A new station will automatically open the System Configuration option on the Hamburger menu.

To load in a previously configured test station file click on the Load icon on the Station Configuration page. This will open a file dialog box for the user to select a GDS Station Config (.gsc) file.

GDSLAB installs a list of example Station Configurations for standard systems in C:\Users\Public\Documents\GDS Instruments\GDSLab\Stations\Examples



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/</u> 3_1_1.mp4

3.1.2. How do I create a Station from an existing GDSLABv2 ini file

The current version of GDSLAB has the ability to import and convert station ini files from the previous GDSLABv2 to a Station Configuration. To load in an ini file change the file type in the file dialog shown in section 3.1.1 to GDSLABv2 INI file (*.ini) and select the desired ini file to import.

This will open the INI Importer window. The INI Importer will automatically map the configuration in the ini file to the appropriate GDSLAB Test Type and will map the transducers defined in the ini file to the appropriate GDSLAB transducer Parameter type. In the INI Importer the user is able to change the mapped Test Type and Parameter type if necessary before the Station Configuration is created.

Any GDSLABv2 calibration files found by the INI Importer referred to in the selected ini file will have their settings imported to the Station Configuration.

					Station
🖻 🤸 o 🧿	Object Display	E E Fo	nt size	Zoom	-0 0
INI Importer					
Test Type Triaxial	*				
Test Standard ASTM					
Acquisition (Read)					
Name	Device	Channel	Key	Parameter	
Cell Pressure 1	Cell Pressure Controller 1	1	2	Cell Pressure (kPa)	*
Cell Volume 1	Cell Pressure Controller 1	2	3	Cell Volume (mm ³)	-
Back Pressure 1	Back Pressure Controller 1	1	4	Back Pressure (kPa)	-
Back Volume 1	Back Pressure Controller 1	2	5	Back Volume (mm ^a)	*
Axial Load 1	Serial Pad 1	0	6	Axial Load (kN)	•
Control (Write)					
Name	Device	Channel	Key	Parameter	
CP Cell Pressure 1	Cell Pressure Controller 1	1	302	Cell Pressure (kPa)	÷
CP Back Pressure 1	Back Pressure Controller 1	1	304	Back Pressure (kPa)	*
CP Back Vol 1	Back Pressure Controller 1	2	305	Back Volume (mm²)	*
CP Axial Velocity 1	LF50 1	98	318	Axial Velocity (mm/s)	-

3.1.3. How do I setup my transducers to read correctly

For devices that do not return values directly in engineering units, such as a datalogger, the transducer needs to be setup with the correct parameters to return correctly calibrated value in Engineering Units.

To setup these parameters click on the Settings Cog on the Transducer card. This will open the Transducer Setting page for that Transducer. Appropriate settings to use for the transducer can be derived from the transducer calibration certificate supplied with the transducer.

Alternatively the users may want to perform their own calibration of the transducer which is dealt with in section 3.1.4.

GDSL/	AB v2023						
Statio	n 1			Axial Load			×
≡							
		ء 💿 🕈	Device V	Device Information			
			Serial	Name	Load Cell 5kN		
			J. The	Serial Number	12345		
8				Raw Units Returned	mV	•	
		-	-	Transducer Full Scale	30	mV	
=¥	Ο	0: Axial Load	¥	Auto Channel Full Scale Used	30	mV	
\bowtie		-	٥	Read Value			
٢٩	Min¶ -∞		Max 00	Engineering Units to be used	kN	*	
	0	2: Axial Displacement	\$	No of Dec Places to be used	4	•	
				Upper Safety Limit	5	kN	
		-	0	🗹 Lower Safety Limit	-1	kN	
	Min ▼ -∞		Max ∞	Soft Zero Offset	0.002	kN	Set Zero
				Calibration			
				Calibration Type	Best Fit		Calibrate
				Sensitivity	0.2512	kN / mV	

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/3 1 2.mp4</u>

3.1.4. How do I calibrate my transducers

To perform a transducer calibration click on the Calibrate button on the Transducer Settings page shown in section 3.1.3. This will open the Transducer Calibration page which allows the user to perform a manual calibration of the transducer, building up a table of applied versus measured values, to derive a calibration which can be utilised in GDSLAB either as a Best Fit sensitivity value or as a Lookup Table interpolating the sensitivity between point on the calibration table.



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/3_1_3.mp4</u>

3.2 Test View

3.2.1. How to display multiple axes on a graph during a test

The GDSLAB graphs give the user great flexibility in displaying test data. In addition to being able to display multiple graphs, it is also possible to plot multiple parameters on the axes of a single graph. For parameters plotted on the Y axis the user can choose to either:

- Plot all the parameters on a single Y axis (useful for parameter of similar range)
- Plot one or more parameters on a second Y axis (useful for parameters whose ranges differ considerably)



Other options include:

- plot data for the whole test, current test stage or a selected test stage
- Change one or more axes to plot on a logarithmic scale
- Invert one or more Y axes

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/3_4_1.mp4</u>

3.2.2. How to adjust the live data that is displayed during a test

The Live Data section on the Test Display page displays the current value of the selected raw or calculated parameters. The user can display as many parameters as desired in this Live Data list. To add a new parameter to the list click on the + icon under the Live Data label, and to remove a parameter click on the – icon. The user can change the displayed raw or calculated parameter of a live data row by selecting from the drop-down list. Parameters can be reordered in the list vie dragand-drop.



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/3_4_2.mp4</u>

3.2.3. How to save and re-load graphs and live data templates

GDSLAB allows the user to save and re-load graph and Live Data settings templates which can be useful to have a predefined view that can be loaded for a specific section of a test. To save the current graph and Live Data settings click on the Export Results Template icon above the graph axes settings (the right-hand disk icon). To re-load a previously saved template click on the Import Results Template icon, and then select the saved template using the File Open dialog window.



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/3_4_3.mp4</u>

3.3 Test View

3.3.1. How to create a data export template for consistent results exporting

Once a .csv datafile export column layout has been defined on the Data Export page as described in section 2.1.6, it is possible to save that layout as a Data Export template for future use. To save the current layout as a Data Export template click on the Export data file layout icon (the lower disk icon). To re-load a previously saved template click on the Import data file layout icon (the upper disk icon), and then select the saved template using the File Import Open window.

Av	ailable columns		Columns in data file	NEW	Template: GDSLABv2-Triaxial-Level1-NoCalcs.gdl (edited)
1	Empty	>	Stage Number		
1	Axial Velocity (mm/s)	<	Time Since Start of Test (s)		
	Cycle Number	^	Time Since Start of Stage (s)	8	
	Average Diameter Change (mm)	v	Cell Pressure (kPa)	data file	e lavout
=	Axial Force (kN)	_	Cell Volume (mm ³)		
=	Axial Strain (%)		Back Pressure (kPa)		
=	Axial Stress (kPa)		Back Volume (mm³)		
	B Value Skempton		Axial Load (kN)		
	Cambridge p (kPa)		Pore Water Pressure (kPa)		
	Chamber Axial Load (kN)		Axial Displacement (mm)		
	Chamber Displacement (mm)				
	Current Area (mm²)				
::	• · · · · · · · · · · · · · · · · · · ·				

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/3_5_1.mp4</u>

4. ADVANCED SETUP

4.1 How to hide test modules on a station that are not used or registered

As default GDSLAB will display all licenced test modules relevant to a Test Type in the Test Module list on the Test Setup page. If desired the user can hide those that they do not intend to use. This is done by clicking on the Test Modules tab on the Settings page, accessed by clicking on the Setting cog on the top right of the screen. Untick all test modules that are not required.

Alternatively, if a user wants to have a look at an unlicensed test module this can be ticked and will appear in the Test Module list. Test control will not be possible if the module is not licenced.

The All button on the right will allow all relevant test modules to be displayed in the Test Module list irrespective of whether it is licenced. The Licenced button on the right will only show those test modules which are licenced.



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/4_1.mp4</u>

4.2 How to lock a station to stop accidental or unauthorised changes

GDSLAB can be locked to prevent unintentional modification of the Station Configuration and transducer settings. This is done by clicking on the Settings page, accessed by clicking on the Setting cog on the top right of the screen, and changing the Lock Station Config setting. There are three options:

- Unlocked the user has the ability to modify the Station Config and transducer settings
- Station Only this locks the Station Configuration but allows the user to modify the transducer settings
- Locked this locks both the Station Configuration and the transducer settings (apart from the ability to apply a zero offset to the transducer)

	_			
	+		\$	
Settings)
Standard Te	st Modules	A	chive	
Language	English		*	
Remember values				
UI Scale	——————————————————————————————————————			
Dark theme				
Primary Colour	Blue		*	
Secondary Colour	Light Blue		*	
Lock Station Config	Unlocked			
Display Default Names	Unlocked			
Display Helper Text	Station on	ly		
	Locked			

If the station is set to anything other than unlocked the user will be prompted to select a password with which to unlock the station.

When the station is locked at either level an unlock icon will appear at the top right of the screen. To unlock the station click on this icon. The user will then be prompted to enter the password to unlock the station.



For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/4_2.mp4</u>

4.3 How to change the user language

The display language of the GDSLAB user interface can be changed at any point. This is done by clicking on the Settings page, accessed by clicking on the Setting cog on the top right of the screen, and selecting the desired language.

		-	o >
	+		¢
🗘 Settings			×
Standard Tes	t Modules	Arc	hive
Language	English		_
Remember values	English		
UI Scale	Français		
Dark theme	Deutsch		
Primary Colour	Español		
Secondary Colour	Polski		
Lock Station Config	中國人		
Display Default Names			
Display Helper Text			

For further information see the video guide <u>https://www.gdsinstruments.com/video-handbook/4_3.mp4</u>