

# **OPERATING MANUAL**



VOH SA



# Table of Contents:

1	Ge	eneral	3
	1.1	Guarantee	3
	1.2	Security	3
	1.3	Transport	4
	1.4	Storage	4
2 3	Pro Cc	oduct description ontents and additional options Bracket	5 6 7
	3.2	HMI Control Panel	
	3.3	HMI Panel connectors	8
4 5	<b>Sta</b> Us 5.1	art up procedure ser Interface (HMI) Functions	9 9 9
	5.2	Device settings	10
	5.3	Welcome screen	11
	5.3.1 5.4	Administrator Mode access	11 12
	5.4.1 5.4.2 5.4.3 5.5	Creating and editing files Creating and Editing a Test Export/Import of Programs Test screen	
	5.5.1 5.5.2 5.6	Control Mode and Production Mode Displaying Graphs Transfer of information via USB	
	5.7	Error messages and Troubleshooting	25
6	Ex	clusion of responsibility and/or guarantee	25
7	Re	presentation/Distribution	25



# 1 General

# 1.1 Guarantee

VOH SA guarantees this product against all fabrication defaults, or functional problems that may arise from normal usage during a period of two years from the initial date of installation. If a problem arises during the period of guarantee and the product is determined to be defect or irreparable, VOH SA will repair or replace the product (the necessary action to be determined by VOH). If the product is defect, please call the Client Services line of VOH at +41(32) 945 17 45.

The guarantee does not apply if VOH SA can prove the defect is result of usage not conforming to the proper application of the equipment.

The responsibility of VOH SA is limited to the repair and/or replacement of the product within the scope of conditions described below:

The product features warranty seals. Any breakage or break of these seals will void the warranty.



Figure 1: Warranty seal

VOH SA IS NOT RESPONSIBLE FOR ANY LOSS OR DAMAGE OF THEIR PRODUCTS, INCLUDING DAMAGES THAT MAY COME AS A RESULT OF USAGE WITH ADD-ONS OR ACCESSORIES DIRECTLY OR INDIRECTLY IN INFRACTION OF THE GUARANTEE, EXPLICIT OR IMPLICIT, AND/OR AND OTHER FAILURE OF THIS PRODUCT. THIS GUARANTEE IS THE UNIQUE AND SOLE GUARANTEE VOH SA OFFERS ON THIS EQUIPMENT.

The following guarantee only applies to the purchasing client, and is non-transferrable. If you have any questions concerning the parameters of this guarantee please write to VOH SA at the following address:

VOH SA La Praye 5a CH-2608 Courtelary

Téléphone	:	+41(32) 945 17 45
Fax	:	+41(32) 945 17 55
E-Mail	:	customer-service@voh.ch
Internet	:	http://www.voh.ch

## 1.2 Security

#### Attention:

- Do not use the FORCEMETRE if it has been damaged. Prior to starting up the machine, first inspect its control box and electrical connections.
- The FORCEMETRE must be used in accordance with the specified guidelines of the fabricator (VOH SA).
- Do not use the FORCEMETRE in an unclean environment.
- Only personnel who have been properly formed in its procedure should use the FORCEMETRE.



Warning!!!

- Please carefully read the information contained in this manual before using the device. Improper use could severely damage the system or result in incorrect measurements.
- Before connecting the device for the first time, verify that the voltage corresponds to the suggested voltage for the device.
- In the instance that the machine is not used for a prolonged period of time, disconnect the power cable.
- Do not under any circumstances take apart the machine. Only the manufacture, VOH SA, is entitled to repair or replace defective components.
- This product should only be stored and employed at a room temperature not falling below 10°C or exceeding 40°C (104 °F).

### 1.3 Transport

This device is not intended for frequent displacement and/or transport. If it is necessary to move the device, be sure to properly protect against unwanted shocks that may damage the device. It is suggested that when transported, shock-preventative packaging is used.

### 1.4 Storage

The FORCEMETRE must be stored in a dry place, protected from humidity and dust. The storage temperature should not fall below 10°C (50° F), or surpass 40°C (104 °F).



# **VOH SA**

Operating manual FORCEMETRE GU-04-06-01 Version 6.1 Créé le 03.2016 Page 5 / 25

# 2 Product description

The FORCEMETRE is a device permitting the accurate combined measurement of force and displacement. This will help qualifying in micro-assembly.

	Technical Spec	ifications
	Dimensions and weight of the bracket	100mm x 120mm x 205mm (width x depth x height) / 2 kg
	Dimensions and weight of display	180mm x 135mm x 100mm (width x depth x height) / 0.5 kg
<b>a</b>	Alignment between broch and base	+/-0.015mm
THE REPORT OF TH	Clearance around the broch	0.005mm
	Space under the broch	35.85mm
	Space under the broch with the extension	24.85mm
	Space under the broch with Horia cleat	22.62mm
SFORCEMETRE	Space under the broch with Horia cleat and extension block	11.62mm
	Course	25mm
•	Stroke / precision of the mechanical stop	15mm / +/- 0.01mm
	Base diameter	50mm
	Broch and base adjustment diameter	4mm H6
	Force measurement	0.5 – 50 N
	Precision of force measurement	+/- 0.5% (+/- 0.25 N)
	Precision of distance measurement	+/- 0.003mm
	Sensor deformation under 50N	< 0.01mm



# 3 Contents and additional options

Descri	ption	
FORCEMETRE Bracket 50N		
Shim		
HMI Control Panel FORCEMETRE		
4GB SD Card Universal Stylus pen for touch screen		
		Power supply 24VDC, 60W
Power supply cord for CEE devices		
SUB-D	15 cord (HMI <-> Bracket)	







## 3.1 Bracket

The bracket contains the necessary elements to test the combined measurement of force and displacement. The bracket is compatible with Horia cleat ø 4mm.





# 3.2 HMI Control Panel

The control box or HMI panel allows the control of the bracket, the creation and modification of tests, analysis of test results and the transfer of results to a printer or a computer via serial communication. The control panel can be navigated using a touchscreen, which functions with a stylus (included) or by touching the screen with one or more fingers. A SD reader (card included) allows the User to import and export programs stored in the memory of the HMI control panel, as well as a history of completed test results. The switch on the right side of the box powers the system.



Figure 3: HMI FORCEMETRE

# 3.3 HMI Panel connectors



Figure 4: HMI FORCEMETRE connectors



# 4 Start up procedure

#### To begin using the FORCEMETRE

- 1) Plug the bracket into the HMI using the sub-d15 cable provided.
- 2) Plug the power supply 24VDC, 60W to the HMI.
- 3) Turn on the switch located on the right side of the HMI.

#### Options:

- Connect the Q3 printer using the provided cable to the RS232 port (printer and cable not included)
- Connect the external push button on the Foot sw. (external push button not provided)
- Connect the HMI to a PC using the USB A-B (not included)

# 5 User Interface (HMI)

The HMI facilitates the overall navigation and control of the FORCEMETRE. The potential functions of the aforementioned device, and the guidelines for their practical application are detailed below:

## 5.1 Functions

#### The FORCEMETRE functions using a three-tier system of access:

- User: open access
- Administrator: password protected access
- SAV: password protected access

#### The diagram below depicts the basic functions of the device.



User

Administrator ASS

Figure 5 : Diagram of general functions of the HMI FORCEMETRE



# 5.2 Device settings

To access device settings, it is necessary to click on the Settings icon while the device is booting.



Figure 6: Screen during booting (settings icon at top left)

From the settings screen, Users can modify language, date and time, as well as change the password for Administrator Mode.

Ð	Settings
$\bigcirc$	Text: Français O Deutsch English
	Time Date (dd/mm/yyyy)
	Password

Figure 7: FORCEMETRE Settings



# VOH SA Operating manual

perating manual FORCEMETRE GU-04-06-01 Version 6.1 Créé le 03.2016 Page 11 / 25

# 5.3 Welcome screen

## 5.3.1 Administrator Mode access

Once the FORCEMETRE has completed booting, a home will appear. Touch the information icon to access Administrator Mode. Touch anywhere else on the screen to access basic User Mode.



Figure 8: Home screen (information icon at top left)

To sign in to Administrator Mode, first select the information icon. A selection of information relative to the different functions of the device will appear on the screen. Select the Administrator Mode icon to access the password login screen.



### Figure 9: Administrator Mode access

lcon	Name	Function
Ð	Administrator	Access Administrator Mode
<b>}</b> }	SAV	Access SAV Mode (VOH only)

Default password for Administrator Mode: 1234

SAV Mode access is reserved for VOH.



# 5.4 Administrator Mode

Administrator Mode permits the User to create, manage, and import/export folders or existing tests. An example of typical navigation in Administrator Mode is presented below:

•	Internal memory	User e dit:	
Ð	Folder	Program	<b></b>
	7750-G3	Test 1	Ξ
	2892-L2	Test 2	
		Test 3	
A		Test 4	
E		Test 5	
Ð		Test 6	-

### Figure 10: Administrator menu

All icons related to the functions of the FORCEMETRE are located on the column on the left-hand side of the screen.

lcon	Name	Function	
œ	Back	Return to the previous page	
Ð	Add	Create a new folder (if the folder column is selected) / Create/Add a new program if a specific folder is selected	
	Edit	Edit the name of a folder, or selected test	
	Trash	Delete a folder/file or selected program	
Export E		Export file(s)	
Ð	Import	Import file(s)	
Useredit: 🔴	User edit	Activate test edition in User mode	

Additionally, it is possible to regulate and authorize certain capabilities for the modification of programs within the User Mode with the « User-Edit » button, located on the top-right of the screen. If the button is activated (red), the User can modify settings within the program they are currently using.

To navigate, a simple click on the « dossier » or « Folder » permits the User to select and view the programs it contains. The selected column will appear red.

4	Internal memory	User e dit:			Internal memory	User e dit:	
Ă	Folder	Program		Ă	Folder	Program	
	7750-G3	Test 1			7750-G3	Test 7	
	2892-L2	Test 2			2892-L2	Test 8	
		Test 3	Ξ			Test 9	=
A		Test 4		A		Test 10	
E		Test 5		E		Test 11	
Ð		Test 6	-	Ð		Test	-

### Figure 11: Selecting folders and programs

To launch a test in Administrator Mode, double-click on the program to bring it up onto the screen.



## 5.4.1 Creating and editing files

To create a new folder, first click on the top of the column « dossier » and the header will appear highlighted in red. Warning! If a specific folder and not the entire column is selected, the device will propose to create a program and not a new folder.

	Internal memory	Useredit:	•
Ă	Folder	Program	
	7750-G3	Test 1	
	2892-L2	Test 2	
		Test 3	Ξ
A		Test 4	
E		Test 5	
G		Test 6	-

### Figure 12: The selected column appears highlighted in red

Once the column has been selected, click on the « Add » button, which looks like a + sign, to introduce a new dossier name. Once you have completed adding the name using the touchscreen keyboard, simply click on the check-mark icon and the dossier has been created.

•	Folder name				
	7750-G3				
	qwertzuiop				
	asdf9hjki				
	☆ y x c v b n m <=				
	123 space 🗸				

Figure 13: Type the name of your new folder

If an Administrator wants to modify the name of a folder, it is necessary to select the folder in question and push the « Edit » button.



## 5.4.2 Creating and Editing a Test

In Administrator Mode, first select a dossier, and then click on the « Add » button. This will create a new test. It will then be necessary to name the test.

	Internal memory		Program name
5		Useredit: 🥌	
$\bullet$	Folder	Program	Test 9
	7750-G3	Test 1	
	2892-L2	Test 2	qwertzulop
		Test 3	a s d f g h j k l
A		Test 4	
E		Test 5	
Ð		Test 6	123 space 선

Figure 14: Creating a new test/ Selecting test type

Once the new test has been named and created, the navigation screen will reappear. To edit a test, double-click on the test in question to open it.



Figure 15: Test programming screen

Each test is composed of 5 sets of settings (the 5 tabs on the right-hand side of the screen) that can be optionally activated. Each of the tabs is individually programmable, making it possible to execute five diverse functions within the same test. To edit the parameters of a tab, select the tab and then click on the « Edit » icon. The following screen will appear.

	Edit : Lim. 1 Lim. 1 : Active		G	Edit : Lim. 1 Lim. 1 : Idle		
	Fmin / Fmax	/[N]		Fmin / Fmax	/ [N]	
	Dmin / Dmax	/[mm]		Dmin / Dmax	/ [mm]	
C	🦉 🖲 F recall	[N]	O	🖲 F recall	[N]	
	🖲 D recall	[mm]		🖲 D recall	[mm]	
	Isreak	[%]		Break	[%]	
	Reset	[mm]		Reset	[mm]	
	Holding			Holding		

lcon	Name	Function
Ģ	Back	Return to the previous page
	Add	Create a new folder (if the folder column is selected) / Create/Add a new program if a specific folder is selected
$\bigcirc$	Switch	Enable/disable tab



The possible programmable parameters and functions, and their uses are explained in the below table:

	llustration	Explanation
Fmin / Fmax		Input the force tolerance range
Dmin / Dmax		Input the displacement tolerance range
Frecall	[N]	Can be activated or deactivated. When activated, the lever will be pulled back if the force measured exceeds the specified value
🖲 D recall	[mm]	Can be activated or deactivated. When activated, the lever will be pulled back if the measured displacement exceeds the specified value
🖲 Break	[%]	Can be activated or deactivated. When activated, it slows the operator's movement. 100% is the maximal brake factor value.
Reset	[mm]	Can be activated or deactivated. When activated, the lever is pulled back when the measured value is xxmm above the contact point.
Holding		Can be activated or deactivated. When activated, the lever is hold in position during an operation.

It is possible to modify test parameters in Administrator Mode, or in User Mode if the « User edit » function is activated.



Distance values are taken from the reference point (point 0.000). This reference is taken when the first contact is detected. In standard mode, this reference is taken for each measure. In SET mode, the reference will be taken once and used as long as the program is active. The limits can therefore be above, bellow or around the reference.



Figure 17 : Reference and sign convention

G	Edit : Lim.1 Dmin / Dmax	G	Edit : Lim.1 Dmin / Dmax			G	Edit : Lim.1 Dmin / Dmax		
Ø		<b></b>	0.0	(†) 0.2	1 2 3 4 5 6	Ø		⊖ 0.7	1 2 3 4 5 6
	0.0 ⊕ 7 8 9 0.2 C 0 .		r	(+) 0.7	7 8 9 C 0 .		0.0	⊖ 0.2	7 8 9 C 0 .

#### Figure 18 : Distance limits edition

The SET mode allows the user to set a reference prior to realizing an operation. In order to set a reference, activate the SET radio and follow the instruction displayed on the screen. To save the reference, lower the lever in order to touch the surface you want to use as a reference. Then, pull the lever up. The reference is then saved and the FORCEMETRE is to be used normally.



Figure 19 : Zero point setting in SET mode

Note:

The reference (or zero point) is saved as long as the program is active. When the user quits the program, the reference is erased.

A more detailed description of the test functions can be found in paragraph 5.5 of this User Guide.



### 5.4.3 Export/Import of Programs

The FORCEMETRE HMI offers the possibility to Users running Administrator Mode to import and export folders, and transfer them from one device to another. The buttons for import and export are located at the bottom left-hand side of the screen.



Figure 20: Export/Import buttons, bottom left

By selecting one of the icons, it is possible to import or export complete folders. To import or export a file, click first on either the « Export » or « Import » icon, then select the dossier(s) to transfer. Then, click again on the « Export » or « Import » icon located on the left-hand column.

Export		port porting.
Folder		Folder
7750-G3		7750-G3
2892-L2		2892-L2

Figure 21: Exporting a folder

During the export/import of a folder, the message « Export en cours... »/« Import en cours... » will appear in the black header at the top of the screen. When the operation is complete, one touch on the back icon will permit the User to return to the main menu. The selected folder(s) will have been copied onto the external SD card (export) or to the internal memory of the device (import). The SD card is located on the left-hand side of the HMI control panel, and can be removed and inserted into another HMI FORCEMETRE to share the folders and programs.



## 5.5 Test screen

The test screen will appear the same in Administrator mode as in User mode. The available functions are also identical as long as « User Edit » is activated. Access to tests in both Administrator mode and User mode takes place using the following menus.

G	Internal memory			G	Internal memory		
	Folder	Program			Folder	Program	
	7750 - G3	Test 1			7750 - G3	Test 7	
	2892 - L2	Test 2			2892 - L2	Test 8	
		Test 3	Ξ			Test 9	Ξ
		Test 4				Test 10	
		Test 5				Test 11	
		Test 6				Test	

Figure 22: User/Administrator Menus

It is possible to open a test in two different ways. Either, the User taps two times on the test in the Programs column, or the User can select the desired test, and touch the check mark on the left of the screen. In User Mode, the test screen appears as follows:



### Figure 23: Test screen

The icons situated on the left sidebar propose the following functions:

lcon	Name	Function					
G	Back	Return to the previous page					
<b>S</b>	Edit	Edit the parameters of the open/selected tab					
	Switch mode	Switch between Production Mode and Control Mode					
	Graph	Display the graph of the most recently completed operation					
	Switch buzzer	<ul> <li>Select the buzzer's function</li> <li>1) Signal when the minimal force is reached and when F<sub>measured</sub> &gt; F<sub>max</sub></li> <li>2) Signal when F<sub>measured</sub> &gt; F<sub>max</sub></li> <li>3) No signal</li> </ul>					
Ext: Ext: Ext: Reset Tol Data	Switch ext	<ul> <li>Select the external switch function</li> <li>1) Reset</li> <li>2) Change tolerance</li> <li>3) Send data</li> </ul>					
AR O AT O	Auto-Reset Auto-Tol	<u>AR:</u> Activate auto-resent in Control Mode. When the lever rises, the measurements will reset to zero. <u>AT:</u> Activate auto-tol in Production Mode. When the lever rises, the consequent tolerance is displayed.					
O SET	SET mode	Activates the SET mode					



The following information will also be displayed during the operation:

Illustration	Explanation				
Mm 0.000 0.000 N 0.00 0.00	Display of force measurements (inferior) and displacement (superior). The left-hand column corresponds to the instantaneous value, whereas the right-hand column corresponds to the maximum value measured during the test.				
0.3 [mm] □ 0.15 □ 0.1 20 35	Display of displacement and force measured during the operation with graphs. The specified tolerances are also shown on both axes. The bar graph uses colors in function of the operation results.  Tolerance not attained Tolerance attained				
0 20 35 50 [N]	: Tolerance exceeded				

The status of the test will be determined based on the measurements of force and displacement relative to the specified tolerances. The conditions will result in a status of OK or KO:

Force								
F <sub>measured</sub> < Tol <sub>min</sub>	Tol <sub>min</sub> < F <sub>measured</sub> < Tol <sub>max</sub>	F <sub>measured</sub> > Tol <sub>max</sub>						
KO	OK	KO						
	Displacement							
D <sub>measured</sub> < D <sub>min</sub>	D <sub>min</sub> < D <sub>measured</sub> < D <sub>max</sub>	$D_{measured} > D_{max}$						
KO	OK	КО						

		Force status					
		KO	ОК	КО			
status	ко	КО	КО	КО			
icement s	ок	КО	ОК	КО			
Displa	ко	КО	КО	КО			



### 5.5.1 Control Mode and Production Mode

The FORCEMETRE has two distinct modes while working with tests. The Control Mode and Production Mode. The specificities and differences of these two modes will be presented in this section.



Figure 24: Control Mode and Production Mode

When operating in Control Mode, the User must choose to activate or deactivate Auto-Reset (AR). When activated this function enables the automatic reset to zero of measured values when the lever is raised to its initial position. Please note that the execution of an auto-reset will send data to PC and printer. It is no longer possible to display graphs of completed operations once auto-reset has been engaged.

•	Edit : Lim. 1 Lim. 1 : Active		E Test 9					
	Fmin / Fmax					P.	AR 🖲	1
	Dmin / Dmax	[mm]	0.20	mm	0 000	0 000	AUTO	2
$\mathbf{U}$	F recall	[N]			0.000	0.000	RESET	~
	🖲 D recall	[mm]	-0.000	O O SET	r			3
	Break	[%]	0.300	Ν	0.00	0.00	DATA	Λ
	🖲 Reset	[mm]	(Ŧ)	1.5		5		
	Holding		Reset 0		L	2	50 [N]	5

Figure 25: Parameter Reset activated and AR activated

When operating and Production Mode, the User can choose to activate or deactivate the automatic tolerance change (AT). When activated, (and the Reset tab is also activated) tolerance change will occur in sync with the resetting to zero of values when the lever is raised. It is important to note that in Production Mode, Auto-Reset is systematically present. Consequently, it is not possible to display graphs in Production Mode if the Reset is activated in the Settings tab.

The FORCEMETRE can be connected to a ticket printer (custom Q3 VOH 17.01781). The tickets are then printed either by:

- 1) By pushing on the DATA icon, following the completion of a measurement when Auto-Reset is deactivated—the information will also be sent to the SD card.
- 2) Automatically following each completed measurement (when Auto-Reset is active) the data will be sent to the SD card.



### The printed tickets appear as such:

Date : 21.03.2013 SN potence : xxxxxxx EM : xxx					
Programme : Nom du programme Tol.1:xx-xx [mm] / xx-xx [N] Tol.2:xx-xx [mm] / xx-xx [N] Tol.3:xx-xx [mm] / xx-xx [N]					
Tol.5:	xx-xx [mm]	/ xx-xx	[N]		
Tol.	Val.[mm]	Val.[N]	OK/KO	Heure	
1 2 3	001 001 001	25 30 40	KO OK OK	09:52 09:54 09:56	
Signat	ure opérat	eur :			



### 5.5.2 Displaying Graphs

The FORCEMETRE is designed to produce graphs summarizing the executed tests (as long as no reset / auto-rest has been made).



Figure 26: Measurement complete

Once the measurements have been completed, the status of the measurements of displacement and force (OK/KO) will appear in the instant value fields. To bring up a graph of the completed operation, a User must simply press on the graph icon on the left.



#### Figure 27: Chart sample

The chart displays displacement on the X axis and strength on the Y axis. The limits are displayed as a black window. The strength/displacement characteristic is plotted in red if outside of the limits window and green if within the limits window. The maximal strength value is displayed on the right hand side (green if within the limits/red if outside the limits).

The USB icon (🔄) allows the user to transfer the chart DATA to a computer (through a USB cable and serial connection). The data can be used to generate the chart. Details of the transfer procedure can be found in the section 5.6 Transfer of information via USB. The chart DATA can also be saved onto the external SD card by pressing the DATA button ().



# 5.6 Transfer of information via USB

To transfer results onto an external support or drive, the process is detailed for you below :

- Download PuTTY.exe (<u>http://the.earth.li/~sgtatham/putty/latest/x86/putty.exe</u>)
- Start PuTTY.exe

NOTE : No installation is necessary to use putty.exe

RuTTY Configuration		×
Category:		
<ul> <li>Session         <ul> <li>Logging</li> <li>Terminal</li> <li>Keyboard</li> <li>Bell</li> <li>Features</li> <li>Window</li> <li>Appearance</li> <li>Behaviour</li> <li>Tramilation</li> <li>Selection</li> <li>Connection</li> <li>Data</li> <li>Proxy</li> <li>Tentet</li> <li>Rlogin</li> <li>SSH</li> <li>Serial</li> </ul> </li> </ul>	Basic options for your PUTTY si Specify the destination you want to comm Senail lipe COM1 Connection type: Consection type: Coad, save or delete a stored session Saved Sessions TORQUEMETRE Default Settings Close window on exit: Aways Never @ Only on or	ession Speed 230400 H @ Serjal Load Saye Delete
About	<u>O</u> pen	<u>C</u> ancel

#### Figure 28: PuTTY.exe

- Select « Session » in the left-hand column
- Select « Serial » on the right part of the window
- In the field « serial line » enter the details of the COM port which the VISIOTEST is connected: in the
  peripheral device management (configuration panel -> system -> material), search for « Ports (COM
  and LPT) » and then « Silicon Labs CP210x USB to UART Bridge (COMxx) -> the xx and the port
  COM number, 7 in the below example:



- In the field labeled « Speed » enter 230400
- Select « Serial » in the left-hand column



The following screen appears:

Reputity Configuration		×
Category: Category: Logging Terminal Keyboard Bell Features Window Appearance Behaviour Translation Selection Colours Connection Data Proxy Tainet Riogin Sisti Serial	Options controlling Select a serial line Serial line to connect to Configure the serial line Speed (baud) Data bits Stop bits Parity Bow control	j local serial lines COM1 230400 8 1 None • None •
About	<u> </u>	Open <u>C</u> ancel

Figure 29: Configuration of the serial port

- Enter the following parameters: Speed 230400, Data bits: 8, Stop bits: 1, Parity: none, Flow control: none. NOTE: the serial port number (here in the example COM1) may vary.
- Return to Session (left hand column). Select « Serial » on the right side of the window
- It is also possible to save the configuration, by naming it and clicking SAVE
- To activate the serial port, and/or configure it, simply click on « Open ».

Real PuTTY Configuration		×
Category:		
Session └orggng └orggng └orggng └orggng └orggng └orggng └orggng └orggng └orggng └orggng ·o	Basic options for your PuTTY's Specify the destination you want to conn Serial lige COM1 Connection type: Reg Iehet Riogin SS Load, save or delete a stored session Saved Sessions TORQUEMETRE Default Settings Close window on egt: Aways Never © Only on the set of th	ession ect to Speed 230400 H  © Segal Load Saye Delete clean ext
About	Open	<u>C</u> ancel

aFigure 30: Save configuration



## 5.7 Error messages and Troubleshooting

N°	Observed effect	Solution	
1	The bracket is not responding	Hold down the bracket's reset button for 5 seconds, and then push quickly a second time.	
2	HMI Control panel not responding	Shut down and restart.	

# 6 Exclusion of responsibility and/or guarantee

Damages provoked by use, transport, or storage not in accordance with the specifications described in this guide will not be included in the guarantee from the manufacturer. Any modifications of the device, and/or opening of the machine are forbidden and immediately negate the guarantee. The guarantee expires when it is evident the fault is with the User, and not a fault in manufacture.

7 Representation/Distribution



VOH SA CP66 Z.I La Praye 5a CH-2608 Courtelary info@voh.ch www.voh.ch T+41 (0)32 945 17 45 F+41 (0)32 945 17 55