User manual calibration station.

Communication between the Android device and the Calibration Station is carried out using Bluetooth interface.

The Calibration Station must be added to the list of paired Bluetooth devices.

In the **Bluetooth** settings of the Android, after Bluetooth devices scanning should be available **ST2xTxxx** device. The password for pairing is **1234**.

After connection, the Calibration Station named ST2xTxxx will be in the list of paired devices.



After launching the app we should enter the login/password for authorization. After

authorization, the calibration process settings window will be available.

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STcontrol	Paired Devices		STcontrol connected to ST21T010	DISCONNECT				
	A211659 98:DA:20:01:02:13		Estimated tank volume (s), liters	100				
	ST21T010 93:39:03:08:04:77		Dose of fuel, liters	10				
			Pause between straits, seconds	180				
			Autopaus	e 🕕				
Login demo				40., -				
Password			Amount of LLS	2 👻				
(0			Description					
Sign in								
			START					

After connecting the Calibration Station using the "**Connect**" button and entering the settings, you can start the calibration process. Calibration starts after pressing the "**START**" button. On the screen you can see the ongoing calibration process. After completing the calibration and clicking "**NEXT**" button, the screen for exporting the calibration results will open.

STcontrol connected to ST21T010	¥ ♥ ≧ i 4:20	STcontrol connected to ST21T010	STcontrol connected to ST21T010	* 💎 🖹 💼 4:28	STcontrol connected to ST21T010	* 💎 🖹 💼 4:28
Estimated tank volume (s), liters	100	# Volume LLS1 LLS2 LLS3 LLS4 LLS5 0 0 36 91	# Volume LLS1 LLS2 LLS3 0 0 36 91	LLS4 LLS5	🔿 wialon	
Dose of fuel, liters Pause between straits,	10	1 10 319 420 2 20 620 775	1 10 319 420 2 20 620 775		Fort Monitor	
seconds Autopaus N max	e	3 30 894 1049 4 40 1140 1405	3 30 894 1049 4 40 1140 1405 5 50 1514 1815		Omnicomm	
Amount of LLS	2 •		6 60 1980 1815 7 70 2317 2591		CSV data	
DAF 8654 20.07.2021			8 80 2910 3275 9 90 3375 3777		TXT data	
		Calibration process started	10 100 3841 4005 Calibration compl	eted		
START		PAUSE STOP	васк	NEXT	DONE	

After selecting the data export format, the standard Android screen "Share" will open (the screen view depends on the applications installed) to select the method of transferring the calibration results. For example, the method of sending calibration data by e-mail has been selected. After sending the message, the app returns to the results export screen.

STcontrol connected to ST21T010	* 💎 🖹 🗎 4:29	•	∦ 🖤 🖹 🛢 4:29	STcontrol connected to ST21T010	\$ ▼ 🗟 🗎 4:28
🔾 wialon		← Compose From otntserver@gmail.com	@ ▶ :	🔿 wialon	
Fort Monitor		то	~	Fort Monitor	
Omnicomm		Subject Compose email		Omnicomm	
CSV data		demo_2307n_DUT1.csv	×	CSV data	
Export result to:		demo_2307n_DUT2.csv	×	TXT data	
Gmail Android Beam Bluetoot	h Nearby Share			DONE	

The item "Archive" in the app menu allows to return to the results of previous calibrations. Records in the Archive can be selected and deleted. Also there is a search function by the "Description" field.



The item "Pump out fuel" in the app menu allows to control the pump of the calibration station for pumping out fuel from the vehicle tank.

STcontrol connected to ST21T010	* 🔍 🖹 4:32	STcontrol connected to ST21T010	▼ 🖹 🛢 4:32	STcontrol connected to ST21T010	* 👻 🖹 🕯 4:32
PUMP OUT		PUMP OUT		PUMP OUT	
PAUSE		PAUSE		CONTINUE	
STOP		STOP		STOP	
ВАСК		ВАСК		BACK	

The "Autopause" function (supported in the software version 1.6 and abowe) allows to set the mode in which the Calibration Ctation automatically chooses the time of each pause between straits, based on "fluctuations" in the data of the liquid level sensors. In the "N max" list, select the maximum value of the LLS output range.

stimated tank volume s), liters	100
ose of fuel, liters	10
Autopause	
N max	1024
mount of LLS	4096
Description	

The calibration process can be paused ("pause"/"continue" buttons) or terminated with the

"stop" button from the app. After stopping and waiting for the pause time, the station will report

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ST	Control nnected to ST21T010	ST cor	control inected to ST21T	010			ST con	control nected to	ST21	го10			
#	Volume LLS1 LLS2 LLS3 LLS4 LLS5	#	Volume LLS1	LLS2 LLS3	LLS4	LLS5	#	Volume	LLS1	LLS2	LLS3	LLS4	LLS5
0	0 91 201	0	0 91	201			0	0	91	201			
1	10 383 547	1	10 383	547			1	10	383	547			
		2	23 684	1022			2	23	684	1022			
							3	32	1013	1615			
	Calibration paused		Calibrat	ion stopp	ing			C	alibra	tion s	toppe	ed	
	CONTINUE STOP		ВАСК		NEXT			BACK	(NEXT	

The calibration process can be manually stopped by the "emergency stop" button on the body of the Calibration Station or automatically by timeout (no pulses from the fuel meter within a minute), a corresponding message will appear on the screen.

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#	Volume	LLS1	LLS2	LLS3	LLS4	LLS5	#	Volume	LLS1	LLS2	LLS3	LLS4	LLS5
0	0	146	201				0	0	109	1615			
1	10	401	584				1	10	401	712			
2	20	648	912				2	15	721	1058			
3	30	821	1168										
С	Calibration completed abnormally						C	alibratio	on co	mplet	ted by	/ time	out
	BACK				NEXT			BACK				NEXT	