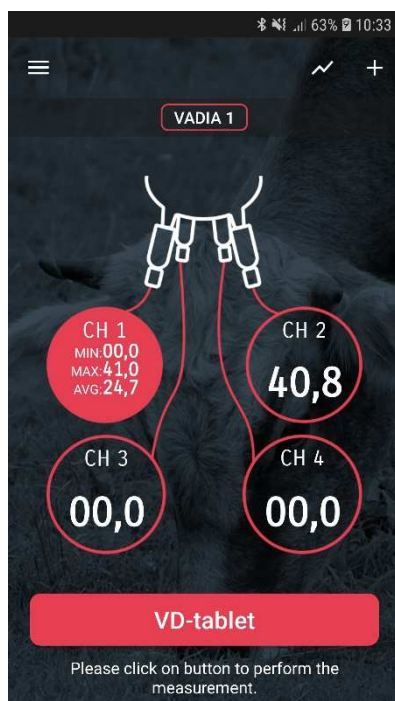


Vadia Mobile User Manual

by BioControl



User Manual

Version 1.1

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Table of Contents

1. General Description.....	3
2. Software first start.....	3
2.1. Software installation	3
2.2. Update	3
3. Application Features.....	3
4. Frequently Asked Questions.....	12
1. How I can download the application?	12
2. How do I update the firmware on my VaDia device?	12
3. How can I get the Bluetooth printer?.....	13

1. General Description

VaDia Mobile is a software developed by BioControl for Android Operating System which can be used to view current, maximum, minimum and average vacuum in kPa or inHg from VaDia device in real time (via Bluetooth) as well update time on the device, view the streaming data graph, perform a Pulsator Test, Slug Test or Fall off Test and to create a report.

Keep in mind VaDia Mobile will only change the time displayed later during the test, it will not initialize the device.

NOTE: To be able to change time on your device, firmware version must be at least 2.3.0. For more information, please refer to the FAQ section.

2. Software first start

2.1. Software installation

The software can be downloaded from Play Store. Go to Play Store and look for Vadia Mobile (<https://play.google.com/store/apps/details?id=com.biocontrol.vadia>). Log in with your license ID and password. The modules assigned to your license will be available in the software (Pulsator Test, Fall off Test and Slug Test). By clicking on “Skip” you will be able to connect to your device, see vacuum and update the time (firmware version must be 2.3.0 or higher), but you will not be able to analyze the data. If you do not have a license and password, please contact orders@biocontrol.pl.

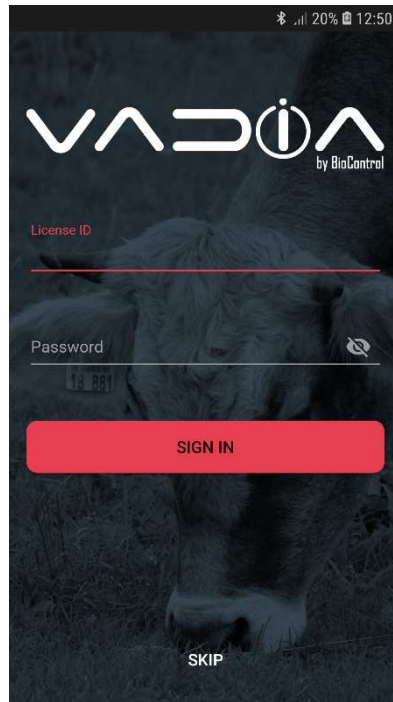
Version for iOS is under development and version for Windows 10 Mobile is currently unavailable.

2.2. Update

Depending on your phone’s settings the application will either update automatically or you will be prompted whether you would like to update the application.

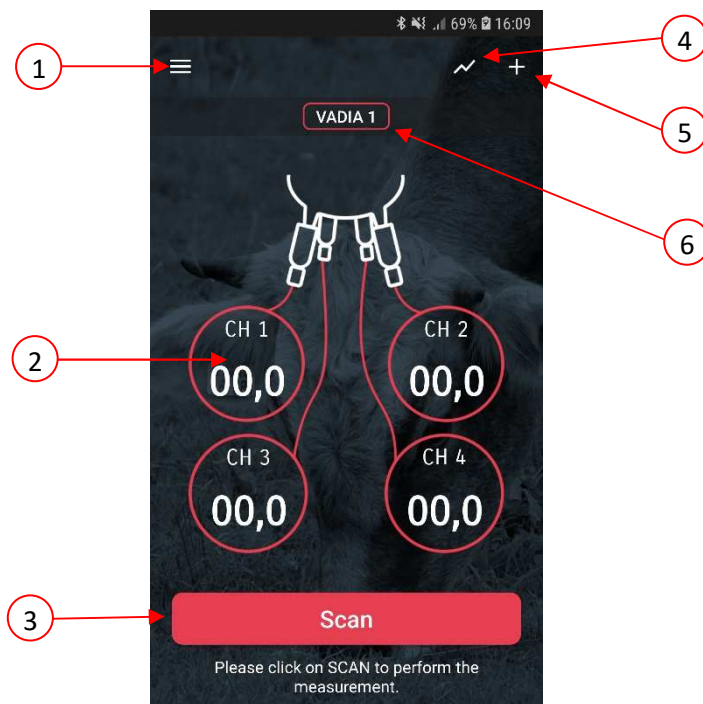
3. Application Features

Application’s main view allows to look for the nearby devices and connect to them to view vacuum in kPa or inHg on all 4 channels. VaDia must be in a Bluetooth mode to connect to your phone. Up to 4 VaDia devices can be connected at once. The software also allows to update the time on the device, view streaming data graph, perform a Pulsator Test, Slug Test or Fall off Test and to create a report. Performing a Slug Test, allows for testing how efficient the cleaning system in milking parlour is.



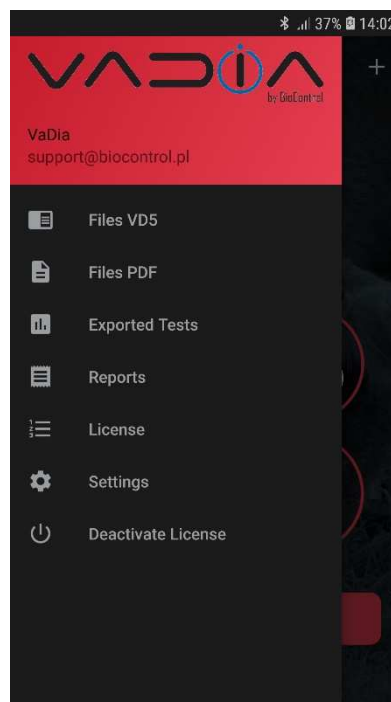
Login View

The first view displayed after launching the application. Use your Vadia Suite license to log into the application.



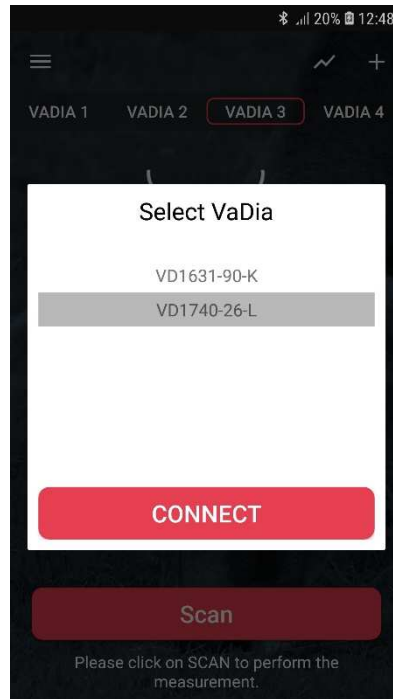
Main View

1. Menu button – slides main menu from the left side of the screen
2. Channel information – displays current vacuum of the channel, after tapping the channel field, minimum, maximum and average vacuum is displayed
3. Scan button – allows to look for nearby devices in Bluetooth mode
4. Graph icon – displays graph for selected device
5. Add device – clicking on this icon, adds another device to the list (up to 4 devices connected at once); to remove a device, tap and hold device number for approximately 2 seconds
6. Device number – displays device number; by tapping and holding the device number, a smaller menu appears, where you can update time, disconnect or remove the device



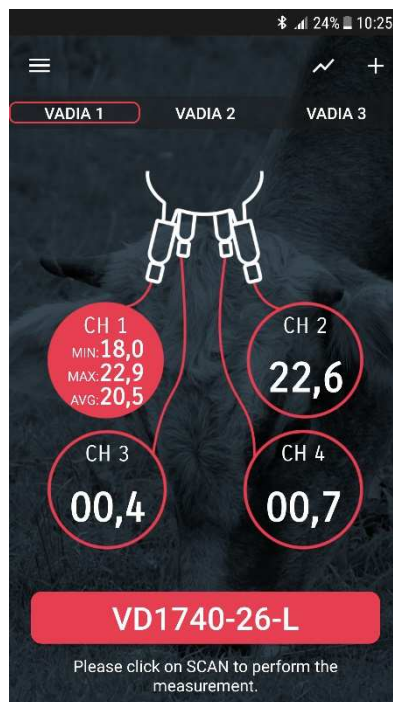
Vadia Mobile Main Menu

1. Files VD5 – view vd5 files saved from connected devices. Keep in mind, vd5 files might get large and if there is no more memory space on your phone, the file will not be saved
2. Files PDF – view generated and saved reports here. Keep in mind, pdf files might get large and if there is no more memory space on your phone, the file will not be saved
3. Exported Tests – exported tests that can be imported to Vadia Suite Software
4. Reports – history of tests created in the application. You can export the test, generate a PDF or print the report
5. License – your license details
6. Settings – application settings, you can set vacuum units, distance units and diameter units here. You can also find contact information and version number in this view
7. Deactivate License – log out of the software. Please keep in mind that this will deactivate your license from the application and you will have to log in with license ID and password again. (An extra activation will be required)



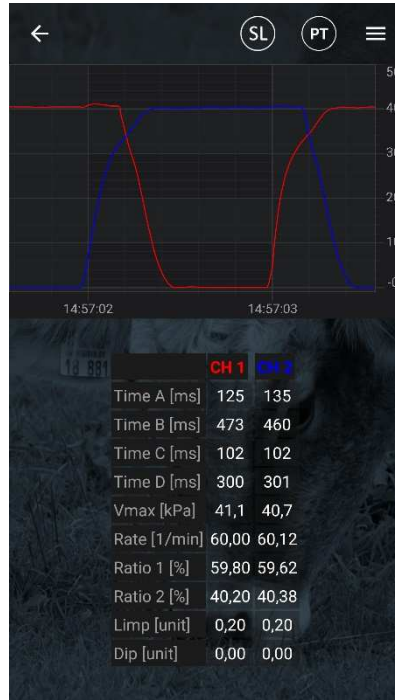
Bluetooth connection view

Select the device by its serial number and then click “Connect” to connect to the device.



Connected device view

Now you can either add another device or go to the graph view and perform tests.



Graph view

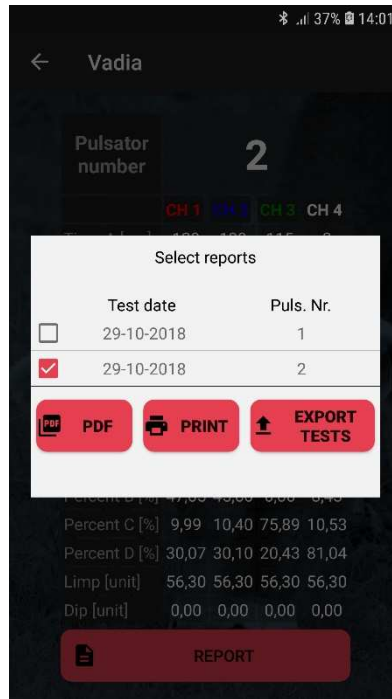
Data presented in graph view is analyzed online [live] (refreshed every second, data analyzed from last 7 seconds). To perform a Pulsator Test or Slug Test, tap PT icon or SL icon respectively. By clicking on the icon on your right (three horizontal stripes) you can select active channels.

	CH 1	CH 2	CH 3	CH 4
Time A [ms]	127	137	114	0
Time B [ms]	473	458	0	83
Time C [ms]	100	104	2370	104
Time D [ms]	300	300	640	811
Vmax [kPa]	41,26	40,80	40,42	40,74
Rate [1/min]	60,00	60,06	19,21	60,12
Ratio 1 [%]	60,00	59,56	3,65	8,32
Ratio 2 [%]	40,00	40,44	96,35	91,68
Percent A [%]	12,70	13,71	3,65	0,00
Percent B [%]	47,30	45,85	0,00	8,32
Percent C [%]	10,00	10,41	75,86	10,42
Percent D [%]	30,00	30,03	20,49	81,26
Limp [unit]	56,40	56,40	56,40	56,40
Dip [unit]	0,00	0,00	0,00	0,00
Pulsator number	1			

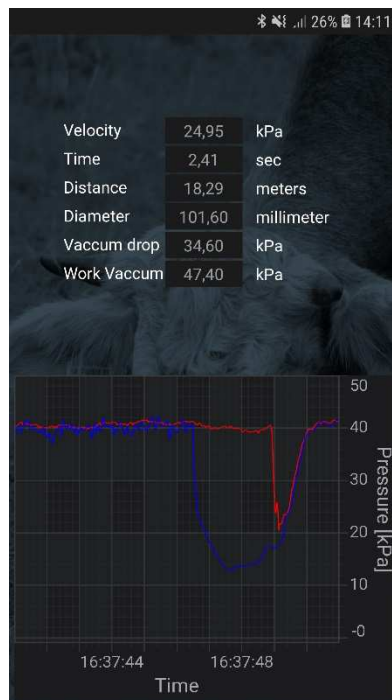
REPORT

Pulsator Test results view

Unless less channels selected, the results from all 4 channels are presented. By clicking on “Report” button, you can either save a report as a PDF, print the report using a Bluetooth printer¹ or Export tests to load them in Vadia Suite. Every time a test is created, you can go back to graph view and create another test. Pulsator Test number is automatically incremented.



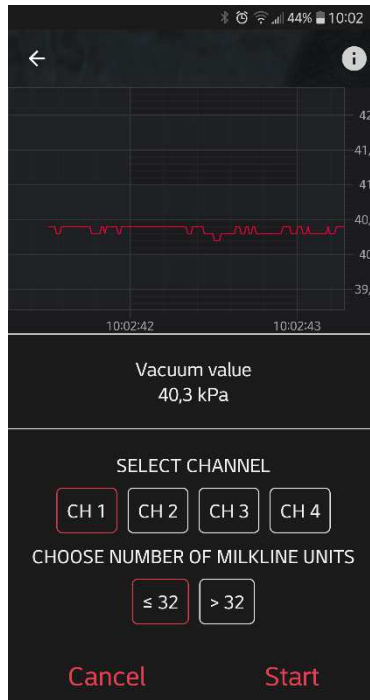
Create PDF, print or export test



Slug Test view

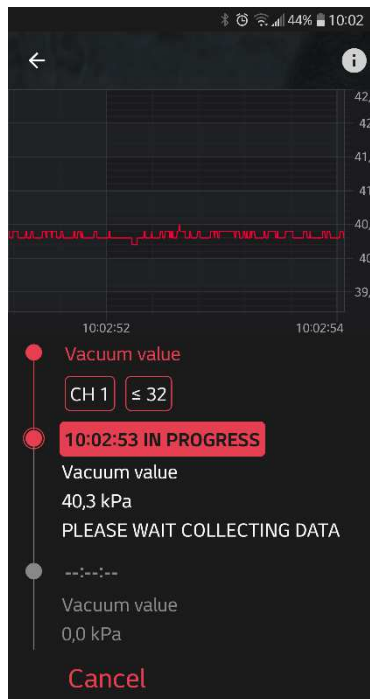
¹ Bluetooth printer available for purchase by sending request to orders@biocontrol.pl. More information in FAQ section of the manual.

Go to the chart view and press “FT” to enter Fall Off Test screen, you will see the following:



Fall off test view

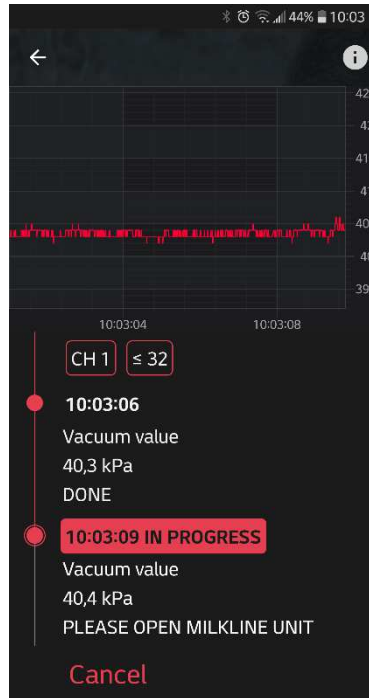
Select the channel on which data is streaming and the number of milkline units. Afterwards, press “Start”.



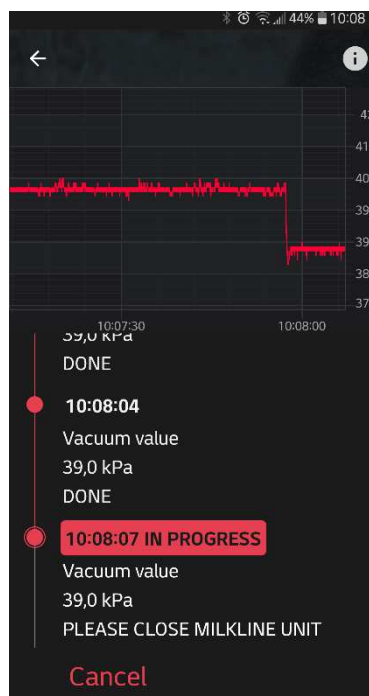
Fall off test data collection

Follow the instructions displayed on screen. They will be displayed in the following order:

- Collecting data
- Open milcline – collecting data
- Close milcline – collecting data

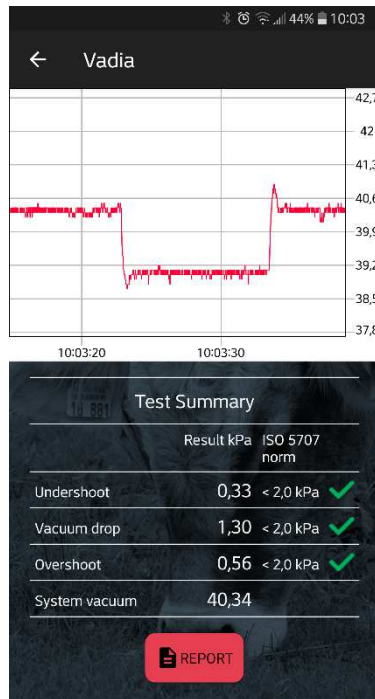


Open milcline request



Close milcline request

After data collection is complete, test results will be displayed:



Fall off test results view

Test results are compared with ISO 5707 norm.

4. Frequently Asked Questions

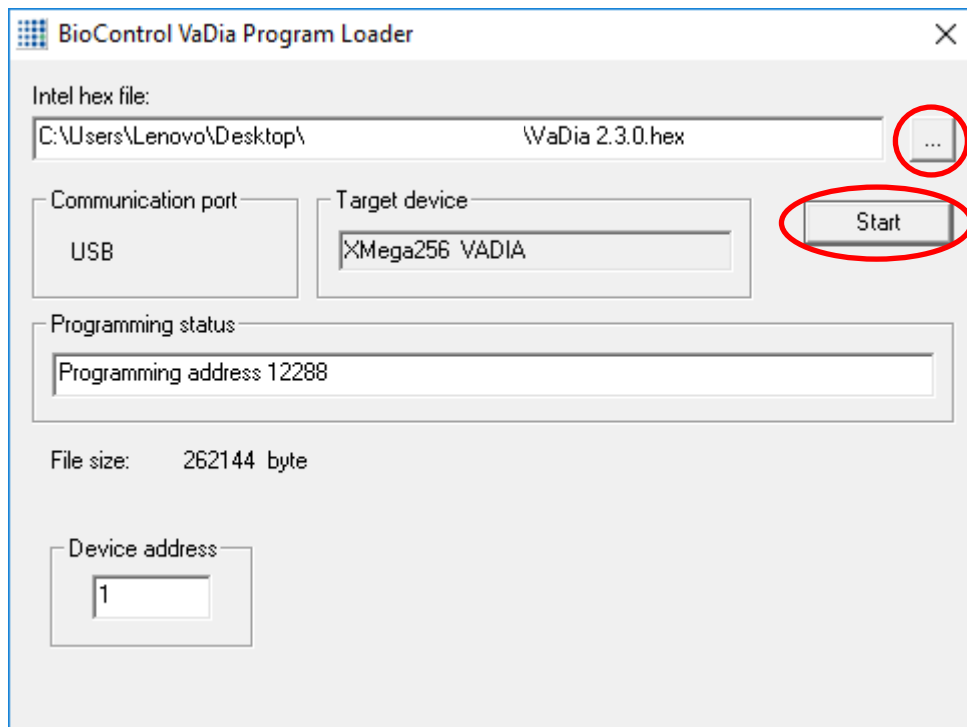
1. How I can download the application?

Please go to your Google Store (Play Store) on your Android phone, in the search bar look for “Vadia Mobile”, then select Vadia application and purchase it from Google Store. After downloading the application, you will be asked to enter your Vadia Suite License ID and Password to gain access to all features of the software. If you do not have a license, please contact orders@biocontrol.pl.

2. How do I update the firmware on my VaDia device?

This process needs to be done on a PC or on a tablet. Please go to our website: <http://www.biocontrol.no/support/software-and-documentation/#vadia>

Expand the first tab “Vadia Suite” and download VaDia Program Loader. Then right click on “VaDia firmware v2.3.0” and select “Save link as” and save the .hex file on your computer. Connect your VaDia device to the PC or tablet via USB cable attached to the device. Please make sure that the battery is in your device and is fully charged. Launch VaDia Program Loader, load the .hex file with new firmware and install it on your VaDia.



1. Click on the ellipsis icon and select your previously saved .hex file.
2. If your device is connected via USB with battery inside, click “Start”, Program Loader will automatically detect the device and update the firmware.

3. How can I get the Bluetooth printer?

You can order the Bluetooth printer from our company. Please send your request to orders@biocontrol.pl.



The cost of the printer is 570€ and it includes:

Printer kit for Vadia Mobile, Bluetooth

- Battery operated printer, 2" paper, BT
- All necessary cables and mains chargers
- A belt clip/wall bracket
- Primary cell cradle (for in case printer rechargeable battery is empty)
- 1 roll of paper

Should you have any further questions, feel free to contact us at support@biocontrol.pl.