

Vacuum Gauge 2.0 App

For use with DigiVac Bullseye Vacuum Gauges with Bluetooth



Operational Manual

YOU MUST READ THIS MANUAL BEFORE USE

October 2020

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Section 1: Overview

The **Bullseye Vacuum Gauge 2.3.4 App** is the second release of the Vacuum Gauge app and can be used to extend the functionality of all Bullseye Precision Gauges equipped with Bluetooth.

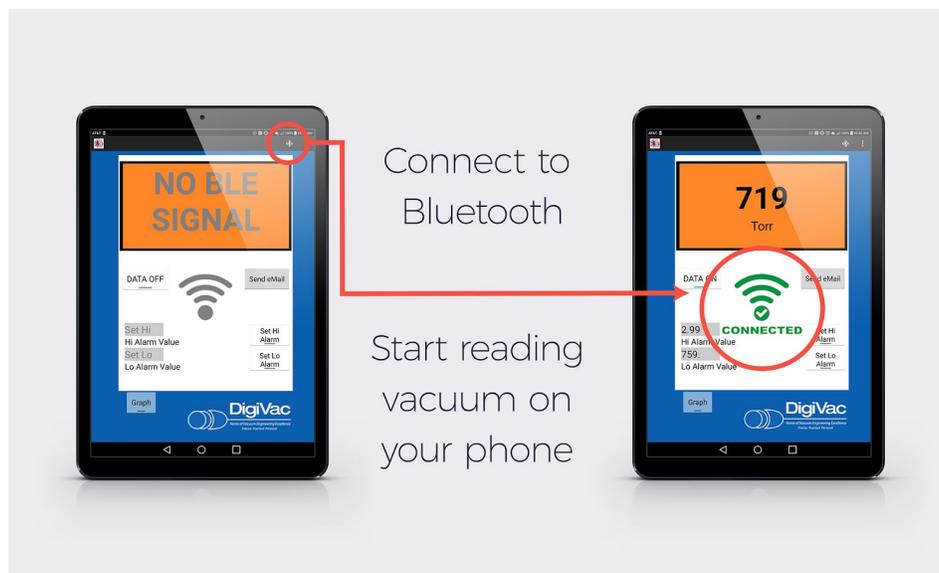
The Vacuum Gauge App for Bullseye Precision Gauge with Bluetooth enables remote monitoring of your vacuum gauge from your tablet, smartphone, or PC via vacuumnetwork.org. The App features vacuum monitoring, alerting, and sharing.

Vacuum Gauge App Features

- Monitor your vacuum system in real time directly from your smartphone or tablet
- Quickly identify vacuum trends through the use of the app's real time graphing function
- Set high and low alarm set points to be alerted of rises or drops in vacuum pressure

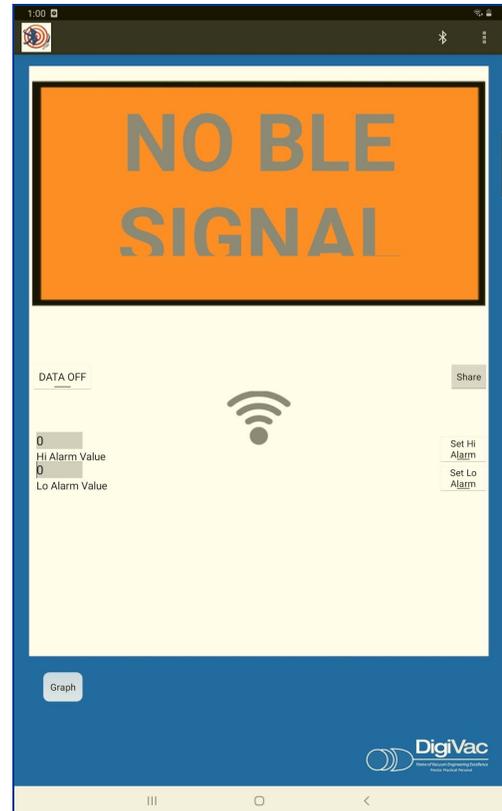
Benefits

- Enables Remote Monitoring: Keep an eye on your vacuum system during pump down processes, even when you are not in the room.
- Be alerted when the pressure rises above or below your alarm set point range.
- Keep the smartphone or tablet hosting Vacuum Gauge within the Bluetooth range, even when you must leave the test site, and surf over to vacuumnetwork.org to quickly see how your system is operating.



Section 2: Instructions for Use

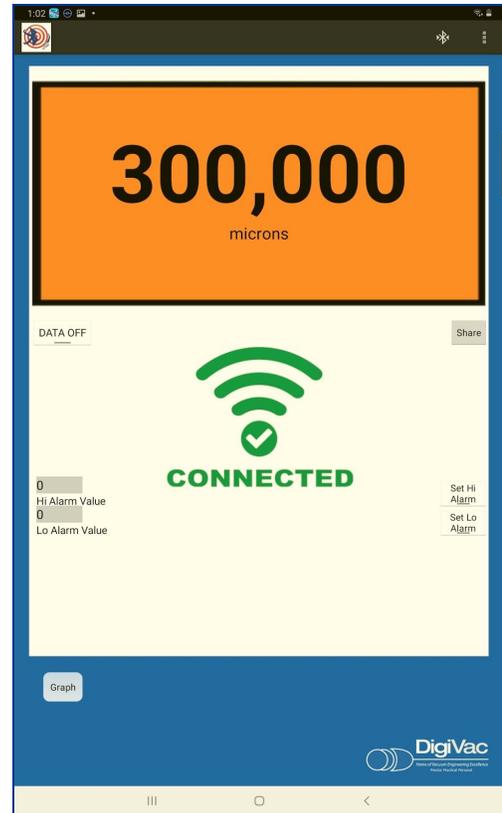
1. After downloading the app to your device, **find it in your app list and open it.** Pictured on the right is the app's home screen, which opens upon startup.



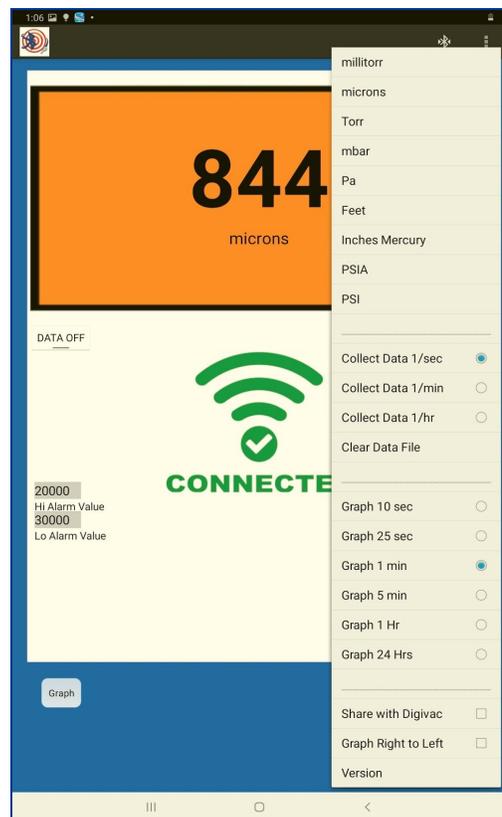
2. Tap the **Bluetooth icon** in the upper-right part of the screen, and **find your Bullseye Precision Gauge** in the list of available devices.



3. Note the green connection symbol, indicating that you are connected.



4. Tap the three dots in the upper-right corner of the screen. Here you can **choose the units of measurement** the app will display, as well as data collection and graphing intervals.



EXAMPLE OF UNIT CONVERSION: Here we have the gauge **reading 362,000 microns**. We selected Feet as the unit of measurement. The app converts the reading directly. It **begins reading 19,200 feet**.

NOTE: The app will not automatically change if you adjust the unit of measurement in the gauge unit directly.

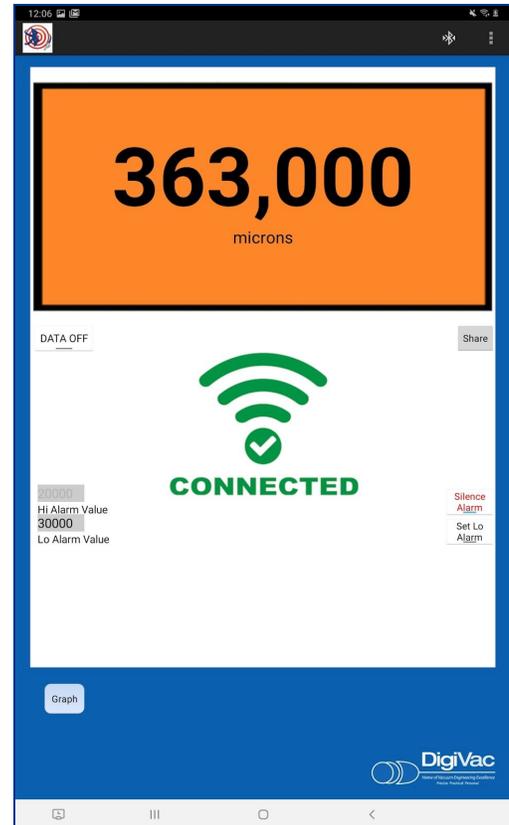


You can set an alarm to sound on your tablet or smartphone when a certain vacuum level in the system is reached.

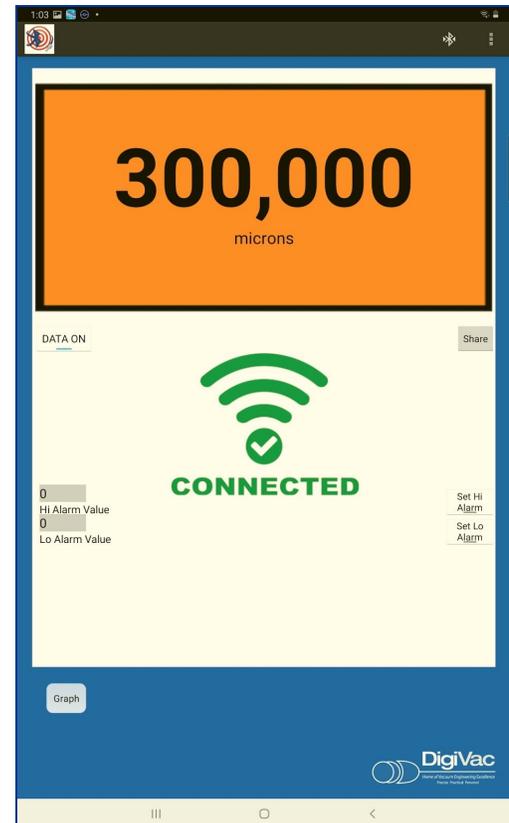
The high and low alarms work independently of each other and can be set at whatever level you need.

- **The Hi Alarm Value** goes off when the pressure **exceeds** the setpoint
- **The Lo Alarm Value** goes off when the pressure **goes lower** than the setpoint

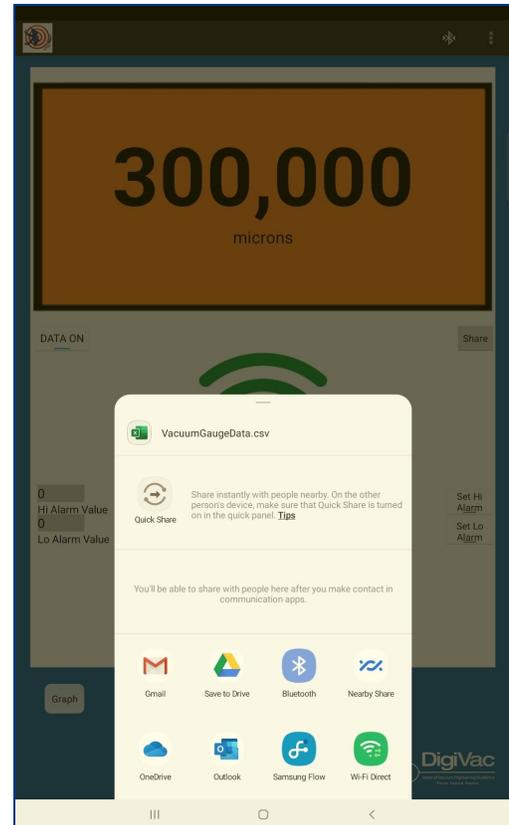
EXAMPLE OF SETPOINT ALARM: Here we have the gauge reading 362,000 microns. **Since the pressure exceeds the setpoint of 20,000 microns, the tablet is now sounding an alarm** (which can be silenced by pressing the red Silence Alarm button).



5. When you're ready to start recording data, **turn data on** (left side of screen). When you're ready to share the data, **tap Share** (right side of screen). Remember the data you've collected will be recorded by the app at the intervals you chose in the menu.

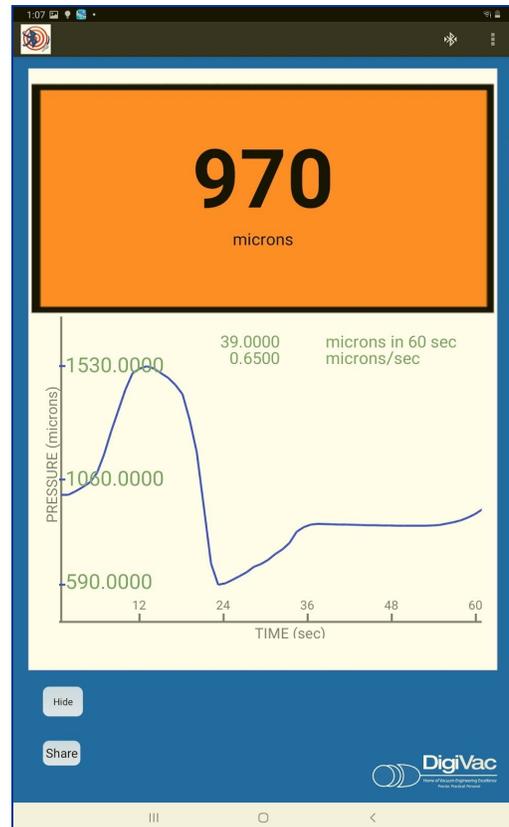


- The app will then export the data in a .csv file. **You can share it with whatever method you prefer.**

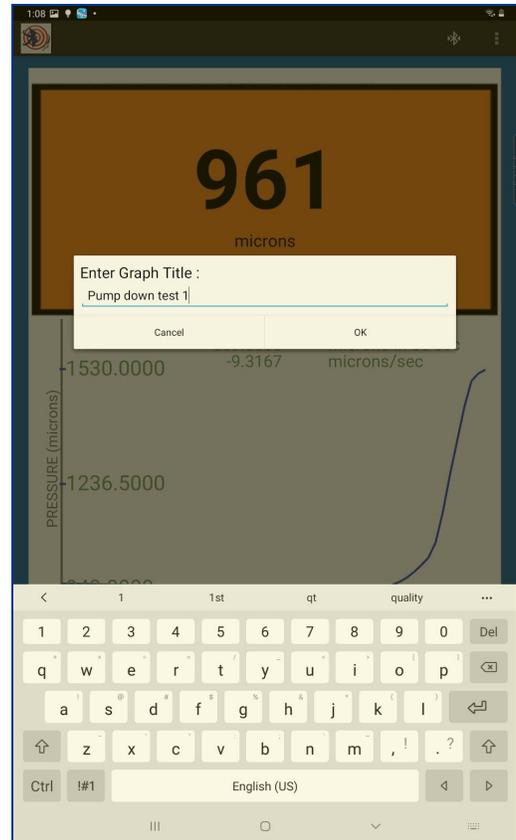


- If you **Tap Graph on the home screen**, a graph will appear recording your vacuum levels according to the intervals you set in the menu.

Here we have a graph of our gauge collecting data once per second over 1 minute. **Tapping Hide** will take you back to the home screen. The graphing will continue.

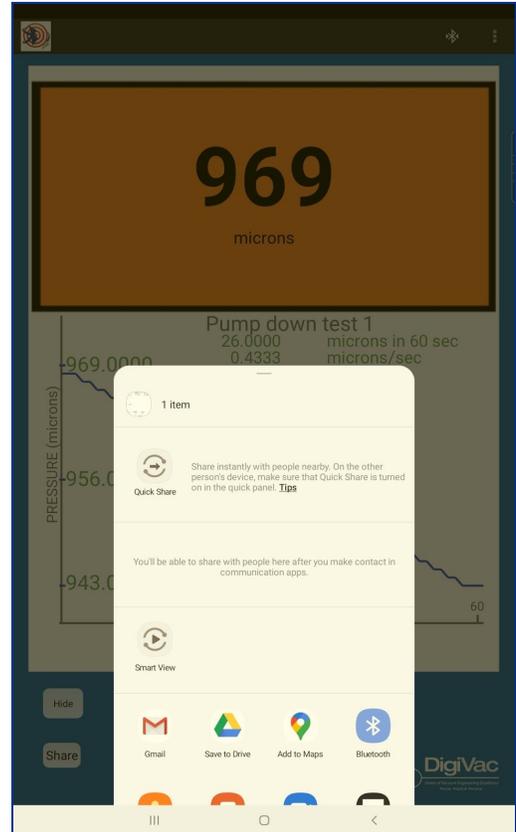


8. This graph can be shared in the same way, **by tapping Share** in the lower-left corner of the screen. **Give your graph a name and tap OK.** The graph can be shared using the same methods.

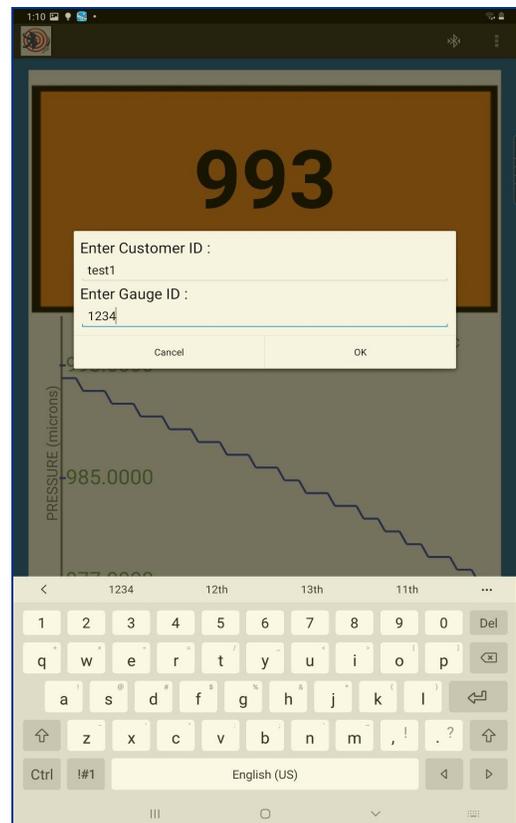


Section 3: VacuumNetwork.org

1. To read vacuum through vacuumnetwork.org, tap “Share with DigiVac” in the menu in the Vacuum Gauge 2.0 App.



2. Assign a customer ID and gauge ID to your instrument. You can use any nomenclature you like. Then tap OK.



3. Go to

Home

Customer ID:
Gauge ID:

Enter Login Details test1 1234 Submit

1
0.9
0.8
0.7
0.6
0.5
0.4
0.3
0.2
0.1
0

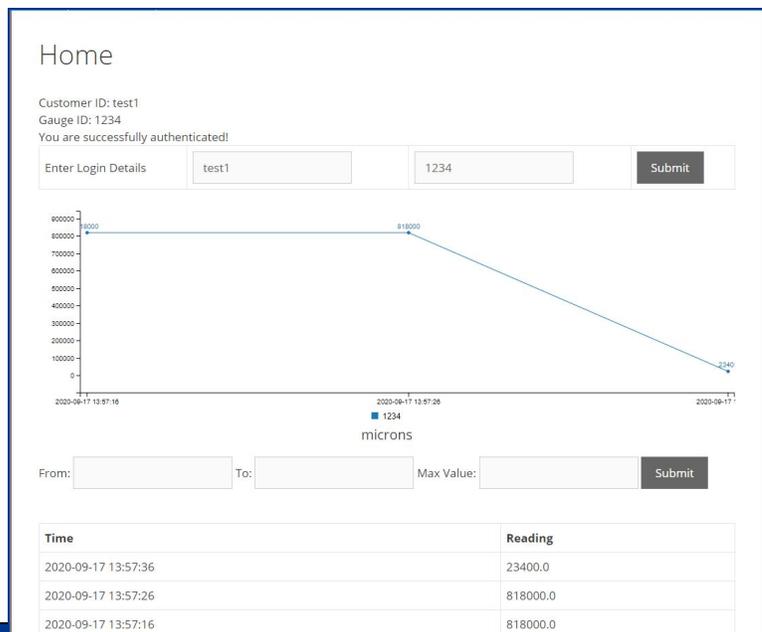
From: To: Max Value: Submit

Time Reading

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www.vacuumnetwork.org on your PC or laptop, enter the customer ID and gauge ID you selected before, and click Submit.

4. **Success!** Your gauge is now communicating and graphing through vacuumnetwork.org, where it can be viewed from anywhere in the world.



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You can now **monitor your vacuum readings** from anywhere in the world and **easily identify trends** in your system no matter how near or how far. You can also **retrieve data** from any desired period of time or at a maximum value by selecting dates from the “From:” and “To:” drop down menus or entering your desired value in “Max Value:” box.

How to Create Your Own Smart URL for vacuumnetwork.org

Vacuumnetwork.org is a tool used by Bullseye Precision Gauge Bluetooth owners to monitor their vacuum system from anywhere in the world. **You can create a login account** to use on vacuumnetwork.org and view your system’s activity. You can then **share this login information** with anyone you like, but if you are wary of sharing these credentials, an easy solution to allow someone to view your gauges without logging in is to create a smart URL.

Follow the preceding instructions to connect your instrument to vacuum network.org

- Create a Customer ID and Gauge ID that is easy to remember
 - *Example: Customer ID = DigiVac Gauge ID= StrataVac*
- Stream over to vacuumnetwork.org and log in
- Open a new browsing tab
- Type in the following website vacuumnetwork.org/?id= (insert your Customer ID)
 - *Example: vacuumnetwork.org/?id=Kerry*
- At this time you should see your gauge activity appearing on the graph.

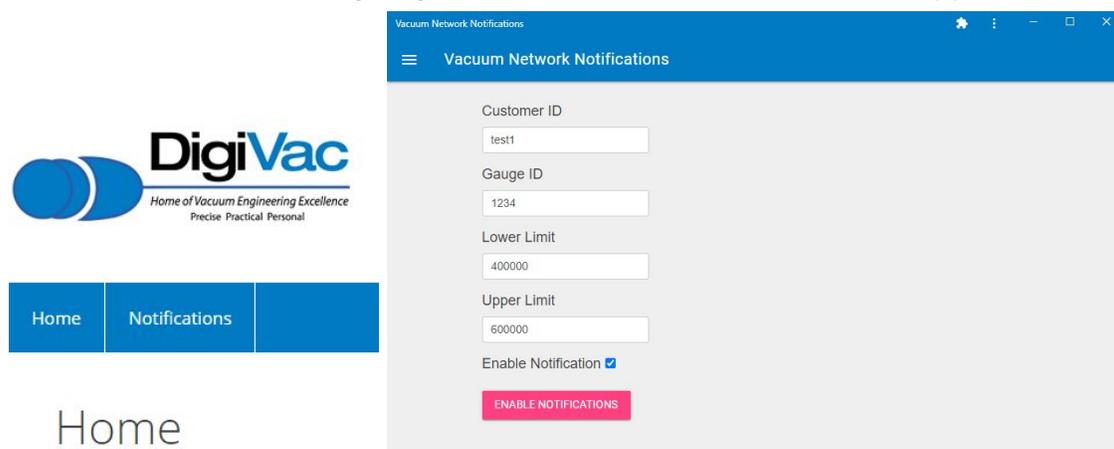
Enable Desktop Notifications for Vacuumnetwork.org

You can receive desktop notifications through vacuumnetwork.org right through your browser.

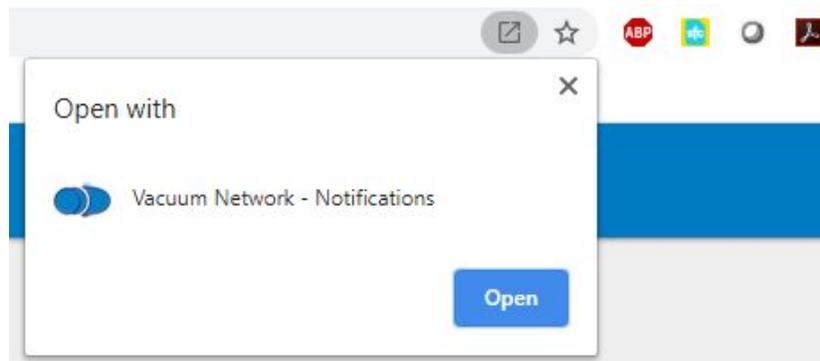
- The notifications are set up so the user denotes the range of vacuum for which they’d like to receive alerts
- The user would receive a notification of any gauge readings within that span at the same intervals they set up in the app

In this demonstration, we use a lower limit of 400,000 microns and an upper limit of 600,000, with a data collection of once per second. So the user would receive a desktop notification once per second for the entire time the gauge is reading between 400,000 and 600,000. The notifications will pause if the gauge readings drift below 400,000 microns or above 600,000 microns.

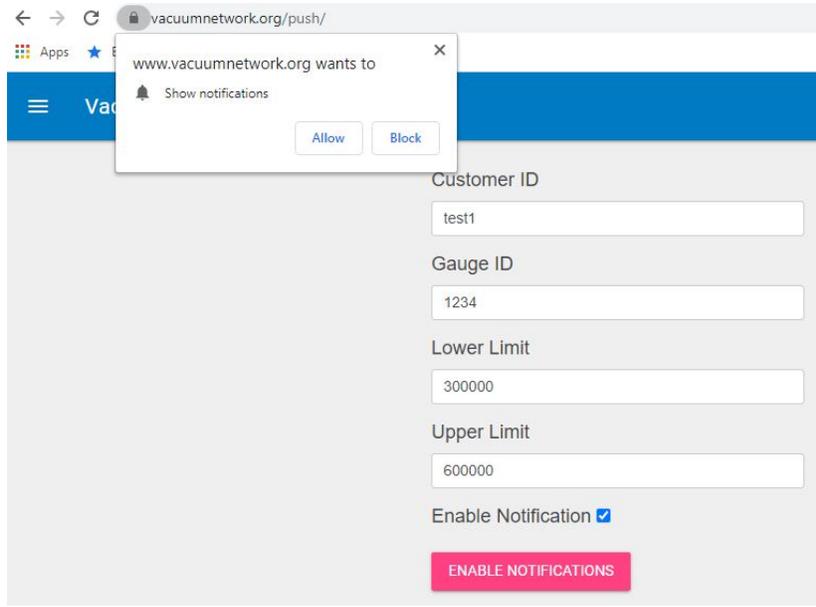
Click Notifications below the DigiVac logo, and the notification screen will appear. Enter the customer ID and gauge ID of your instrument, followed by your Lower Limit and Upper Limit. Remember to adjust your data collection intervals in the app.



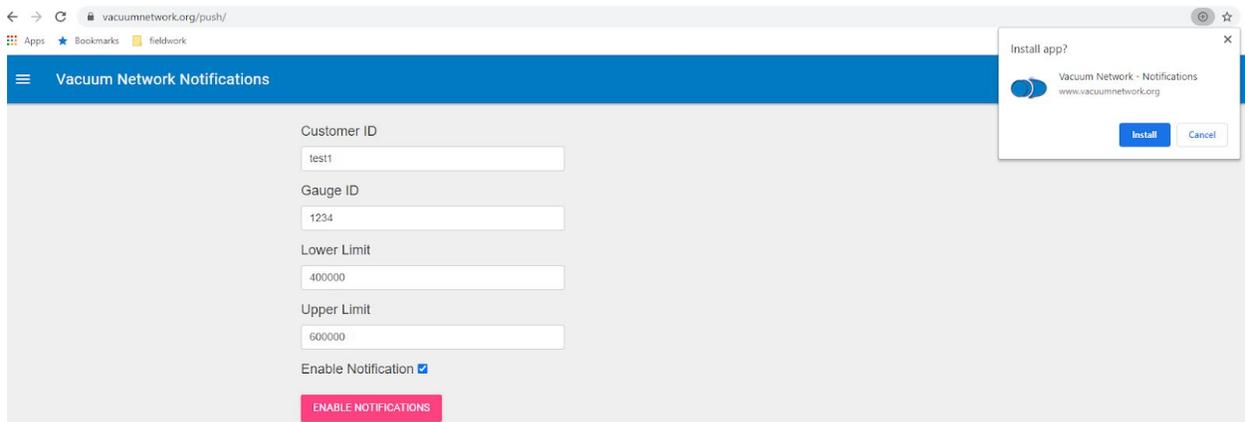
Click the icon in the address bar. When this window appears, **click Open**.



A window will appear asking if vacuumnetwork.org can send notifications. **Click Allow**.



Click the icon in the address bar to install the app that will send notifications.



You will receive a notification at your preset intervals whenever the gauge is reading between the limits. **Please ensure you have Chrome or Firefox notifications enabled.**

