



## Thank You!

Thank you for purchasing the BlowPro Bagpipe Pressure Sensor! This document will give you an overview of how to use your new BlowPro. For more complete information and a full PDF manual, visit our website at:

<https://blowprocentral.com>

## Basics

The BlowPro tracks your bag pressure in real time and presents it in two forms: a metered display, and a graph. Constant bag pressure will produce constant tone for both your drones and chanter.

## Battery Installation

Install the two CR2032 (3 volt) coin cells in the battery holder. The +/- polarity for the batteries is stamped on the battery holder.

Turn on your BlowPro using the slide switch on the top of the battery holder. You should see a green LED when you look into the BlowPro case through the pressure orifice.

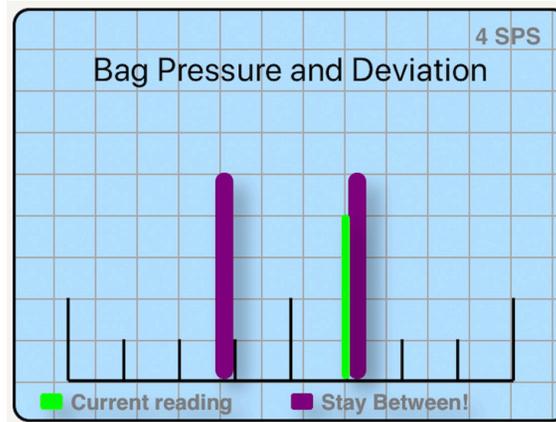
## The App

Download the BlowPro app from Apple's App Store and install it on your iPhone or iPad. Start the app and you will see a "Welcome" screen. Fill

in your name and email and choose *Celsius* or *Fahrenheit* as your temperature unit.

Touch *Device Scan* and look for your BlowPro to show up in the device table. Touch the device table entry to display the Device Information Screen. You can then name your device for faster future reference. Touch *Connect* to connect to your BlowPro.

## The Meter Display

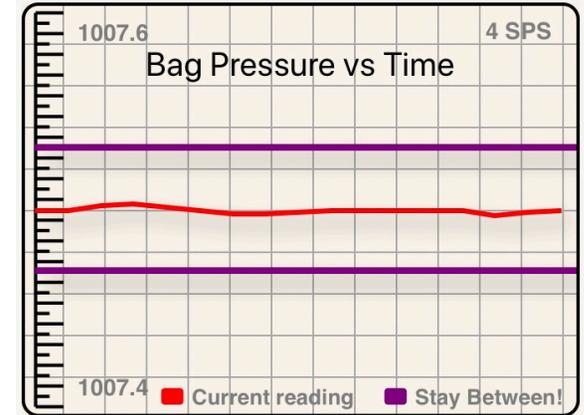


The metered display shows your current bag pressure as a green, yellow, or red line, and two purple "deviation bars" that track the consistency of your bag pressure.

The closer together the deviation bars are, the more consistent is your blowing. A piper who maintains perfect bag pressure would cause the purple bars to centre on the meter display and touch one another.

This is extremely difficult to achieve in practice: most pipers should use the BlowPro to obtain a "baseline" deviation picture and work to improve it over time.

## The Graph Display



The graph also shows current bag pressure but tracks this pressure over time in a moving graph display. Current bag pressure is shown in red. Your goal is to produce a "flat" graph: one with minimal fluctuation of the graph line up or down on the graph.

The graph display also shows a target deviation range through two purple lines that appear above and below the pressure line. As you blow more consistently, the two purple lines will narrow, as they do on the meter display.

## Numerics/Ancillary Controls

## Deviation

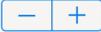
Bag pressure deviation is also indicated numerically. Lower numbers in this field are better than higher numbers. Note your deviation numbers when you first purchased the BlowPro and then work to lessen them over time.

Professional pipers can achieve values under 0.100.

## Bag Temperature

The BlowPro also measures pipe bag temperature. This value is shown numerically on the meter and graph display screens in either Celsius or Fahrenheit degrees.

## Samples Per Second

Set the number of samples per second using the  control underneath the graph/meter window. *For a new user, a sample rate of 4 or 8 will give you a good look at your blowing.*

The default setting is 1 sample per second.

## Zoom

The zoom slider lets you zoom in and out of the pressure display. Set as desired. As you become more skilled in your blowing (i.e. your deviation numbers are consistently lower), it may be helpful to zoom in for higher resolution on your blowing performance.

## Recalibration

If the current pressure line on either the meter or graph display moves consistently outside the purple deviation bars/lines and stays there, then just tap the graphic display window. The display re-calibrates automatically, but occasionally you will need to touch the display to manually recalibrate.

## Reset, Status, and About

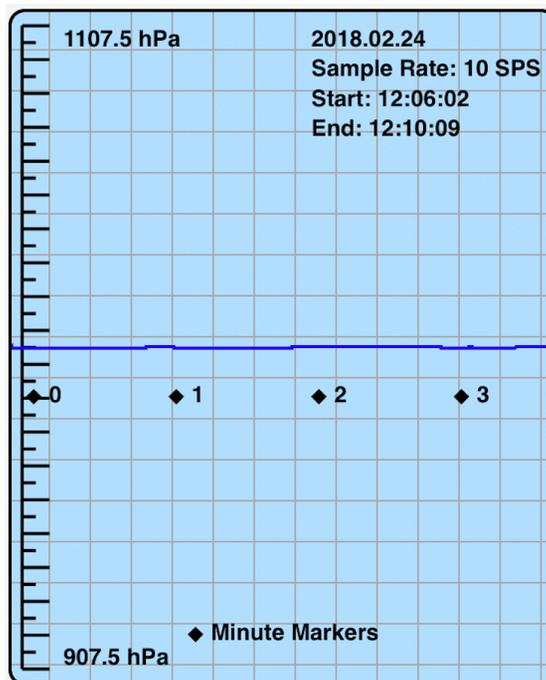


These selection bar items reset your BlowPro to "factory defaults", show BlowPro status, and give you information about the app and device, including battery voltage and software version number.

## Recording a Session

Use the *Record* and *Review* buttons to store your pressure readings and review them later. Minute markers on the Review screen track the timing of your bag pressure variations.

You have the opportunity to email the reading set on the Review screen. The data set is sent as a "CSV" file which is easily importable by common spreadsheet and database programs.



## Sleeping

While powered-on, your BlowPro senses motion and will automatically "go to sleep" if your pipes remain still for 10 minutes. This is intended to conserve battery life. Simply move your pipes a bit and the BlowPro will "wake up" and resume communication with the app.

Sleep mode is indicated in the app by a red status message "BlowPro Sleeping".

## Maintenance

The BlowPro's protective fabric cover is hand washable, but the unit itself and its battery case are not. **Be sure to remove the BlowPro unit and battery case from the protective cover before washing.**

## More Information

For full documentation, frequently-asked questions, and customer support visit our web site at <https://blowprocentral.com>.

## Feedback

The BlowPro is a brand-new device and as such, there is much opportunity for feature enhancement and growth. There may also be bugs. We will work hard to add good features and fix bugs!

Let us know what you think through the web site, or email Kevin at [kevin@worldways.ca](mailto:kevin@worldways.ca).

Happy piping!