



Understanding Keg Volume Measurements

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Overview

Keg level tracking is one of the fundamental features of Kegtron keg monitors. This document describes how it works and how to ensure your measurements are accurate.

How It Works

Flow-based keg monitors determine the volume of a keg using some very basic math:

Keg Volume = Starting Volume - Volume Dispensed

Example:

- 1. If you start with a full ½ barrel keg, your starting volume = 15.5 gallons = 1984 oz
- 2. If you serve 50 US pints servings then your volume dispensed = 50×16 oz = 800 oz
- 3. The remaining **keg volume** = 1984 oz 800oz = 1184oz
- 4. The percent remaining = 1184 oz / 1984 oz = 59.7%

Keep It Real

Your keg monitor is very good at precisely measuring and counting each and every serving. That said, it needs a few basic inputs from you to accurately report keg volumes:

- **Keg Size** This is pretty self-explanatory. If you have a non-standard keg size or brite tank, use the "Custom" option to define the volume of your serving vessel.
- **Starting Volume** For full kegs, the starting volume should always equal the keg size. For partial kegs, the partial volume of the keg should be entered.
- **Keg Counter** The keg counter runs behind the scenes keeping a constant tally of each and every serving. **This counter must be reset each time a new keg is tapped!** To do this, simply hit the "Reset Keg Volume" button on the settings page for your keg.



If you take care of the items above, your keg volumes will be reported accurately. If not, remember: garbage in, garbage out!



Staying In Sync

As noted above, a key requirement when changing kegs is resetting the keg counter. If you fail to do so, the keg monitor will continue to count indefinitely. Here's an example of a keg that was changed without using Reset Keg Volume. The WebApp reports bogus stats while the keg counter is out of sync:



Applying **Reset Keg Volume** when a new keg is tapped ensures that the keg counters stay synchronized with the true starting keg volume and ensures accurate volume reporting.

Auto Keg Reset

Let's face it: All of this the stuff above is great on paper, but what if your staff is too busy to reset the keg counter when they swap kegs? Maybe they don't have access to the Cloud Dashboard? Perhaps they've never been trained on how to do this to begin with?

To address these concerns, Kegtron Pro has a feature called **Auto Keg Reset**. This can be enabled for each keg monitor via the settings page:



How It Works

- 1. Tap a new, full keg
- 2. Hit the **Reset Keg Volume** button on the settings page
- 3. Turn on Auto Keg Reset

That's it! From this point forward, the keg monitor will automatically reset the keg counter when the keg volume drops below zero. Whenever the keg counter resets, the **Keg Count** will increment and the **Date Tapped** will be updated to the current date.

Usage Notes

- You can keep changing kegs indefinitely if you follow the steps above
- If you ever change keg sizes, be sure to repeat the steps above to re-sync the keg counter
- When you blow a keg, keep in mind that air blowing through the lines looks the same as liquid flowing through the keg monitor sensors. This will adversely affect the accuracy of the reported kegs levels. To minimize this, consider installing Foam On Beer detectors (FOBs) to prevent air in the draft lines. This is especially important for long-draw installations.
- To further increase your accuracy, calibrate your servings using the Calibration Offset feature