



## APPLICATION BRIEF

# ACCURATE MEASUREMENT IN THE BREWING OF BEER – CRAFT BREWERIES

June 5, 2024

## PROJECT OVERVIEW

Walnut River Brewing Company in El Dorado, KS has been in business since 2013. Their beers are sold on site at their taproom and are also packaged and sold via liquor retailers. As their sales grew over the years, Walnut River identified key steps in their brewing process where accurate water measurement was critical to maintaining consistency in beer flavor.

### Meter Requirements:

- Affordability – craft breweries have limited budget to support equipment
- Easy installation and maintenance
- Easy cleanup and a water-resistant display

## PRODUCT SOLUTION

The FLOMEC Brew Meter is used at Walnut River in 3 critical points of the brewing process:

When they begin brewing a batch, it is used to measure the amount of water mixed with the grain during the "mash." The proper amount of water is critical to ensure the correct temperature is reached, and to provide the correct grain-to-water ratio keeping the enzymatic reactions efficient.

They next use the brew meter to measure the amount of water used to rinse the grain during the lautering and sparging process. Lautering is when the sweet liquid, called wort, is drained from the bottom of the grain. Sparging is when water is sprinkled over the top of the grain to rinse out residual sugars and to compensate for the amount of water the grain absorbed.

Having a flow meter accurately measure the volume of water added during sparging is critical to end up with the desired amount of beer.

The final place the brew meter is used is when the wort is transferred from the brew kettle to a fermentation tank. Knowing the precise amount of wort in the tank allows them to calculate how much yeast to add, and to help measure losses between brewing and final packaging.

## PRODUCT SPECIFICATIONS

### G2 Series Brew Meter - Turbine Technology

- Stainless steel housing
- Fits pipe sizes ½ - 2 inch
- Accuracy of reading: +/- 1%
- Max working temperature: 0°F to 185°F (-18°C to 85°C)
- Battery operated display – no wiring required
- Easy installation – compact design measuring 4.2 to 6.3 inches in length (based on model)

