

# Beverly – The brewer's best friend

**Industry:** Beer

**Application:** portable DO measurement at different process steps

**Hamilton products:** Beverly

## Introduction

Producing tasty beer with a consistently high quality is a goal of every brewery. One of the most important parameters in beer production that needs to be controlled is dissolved oxygen (DO). High amounts are only welcome after wort aeration. During the fermentation the DO content drops to ppb levels and needs to be kept as low as possible during all the following production steps. High oxygen contents can have an adverse effect on the quality of the beer and its flavor stability. The measurement of the oxygen content can now be made with a new and more reliable means. It can be measured optically via the state of the art optical fluorescence quenching principle utilized by the Beverly portable DO analyzer.

The Riders Brew Co., located outside of Melbourne, Australia, is serious about making the best handcrafted beer they can. Their specialty brews include Easy Rider Golden Ale, XPA Strong Pale Ale, Loose Trucks and their latest, Pale Rider. The newest member to their team, the 'Beverly' dissolved oxygen meter, has allowed them to make serious improvements throughout the brewing process right through to their packaged product.



«The 'Beverly' is a real game-changer... you can purge a tank as many times as you want but you don't know how much oxygen is in there. Now we know! The 'Beverly' has improved consistency... from fermentation through to packaging. Now we can scientifically measure the amount of oxygen from fermentation right through to packaging and can identify any oxygen hiccups that occur along the line when a pump or hose is changed. It has enabled us to greatly extend the quality of our beer.

Since introducing 'Beverly' into my business, I now make better quality beer and have increased sales revenue – this instrument quickly pays for itself!»

—  
**Gus Kelly**

Riders Brew Co. and co-owner of Kellybrook Winery

**HAMILTON** 



«The Beverly has helped us across most of our processes. We are able to monitor pre-fermentation oxygen levels which are really important, we use it in-line when we are filling our tanks, and then post-fermentation when we want no oxygen. It's brilliant for bright tank preparation. We leave Beverly turned on during tank purging to ensure low oxygen levels. Wonderful!»

**Andy 'Shandy' Gargan / Marc Robinson**  
Riders Brew Co.



«We've had the Beverly for months and we only now have had to charge it up. We run it for 5 or 10 minutes at a time most days of the week and it's been two months or more since we've had to charge it. Phenomenal! A child could use it. It's so simple. It's only three buttons. It's far simpler than any of the other industry devices that I've come across. When I tell people that it can measure liquid and gas they get really excited... Yeah, it's really simple and so robust. It gets left on the floor, hung up on the tank. It's really easy to use, easy to clean. I love it!»

**Shandy**  
Riders Brew Co.

## Technical Specifications

Operating Temperature Range	0 – 80 °C (media), 0 – 40 °C (environment)
Operating Pressure Range	0 – 10 bar
Dimensions (B x W x H)	222 x 142 x 322 mm
Ø O.D. Barbed Hose Fittings	8 mm
Weight	4.7 kg
Protection Rate	IP67
Battery	50 h (continuous operation)
Measuring range	4 ppb – 25 ppm (DO)
Accuracy at 25°C (test gas 40 ppb)	40 ± 7 ppb
Measurement Principle	Oxygen dependent luminescence quenching
Response time $t_{90\%}$	< 30 s at 25 °C, from air to nitrogen
Voltage input	24 VDC  0.4 A
Suitable height above sea level	2000 m
Overvoltage category	II
Pollution class	2
Storage and transport temperature	-20 to +50°C
Relative humidity during storage	30 to 85% (no condensation, highest relative humidity 80% for temperatures up to 31°C, linear degression to 50% relative humidity at 40°C)



**Customer**  
Riders Brew Co.  
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