



CDR BeerLab® system

CDR BeerLab® consists of a thermostatically controlled analyser with photometric technology using LED emitters and kits of reagents that are pre-filled into vials and ready to use.











1

Take the sample to be analysed using the pipettes supplied with the system. 2

Place the sample in the test tube containing the pre-filled reagent.

3

Insert the test tube
into the reading cell to obtain
the analysis result.



Reduced analysis times

With CDR BeerLab® you are finally free to carry out the analyses independently, in your own brewery, quickly and easily, without having to rely on an external laboratory. In fact, it is possible to analyse 16 samples simultaneously and constantly monitor the production process, obtaining specific and precise answers in a few minutes.



Easy to use

The system has been designed so that it can be used not only in the laboratory, but also on the production line for real-time results, by personnel without specific technical training.

The analysis methods, shown on the display, are simpler than traditional methods and can be performed in just a few steps.

If required, the HELP function will guide the operator step by step through the procedure. The result is automatically calculated, displayed and printed out.



Reliable

CDR BeerLab® guarantees high sensitivity, a wide measuring range and excellent repeatability of the results thanks to the innovative photometric technology using LED light sources and fixed wavelengths ranging from the ultraviolet to the visible spectrum (with a range of 0 to 6 optical density). The analysis results are correlated with those of the reference methods.





	TEST	Measuring range	Resolution	Repeatability	Test time
	Sugars Fermentable sugars in wort (glucose, fructose, maltose, sucrose, maltotriose)	15.0-200.0 g/L	0.1 g/L	1.6 g/L	13 mins
	Sugars Fermentable sugars in beer (glucose, fructose, maltose, maltotriose)	0.1-18.0 g/L 15-200 g/L	0.1 g/L 1 g/L	0.2 g/L 2 g/L	6 mins
	Lactic acid D+L	150-3500 ppm	1 ppm	73 ppm	10 mins
	Bitterness	5.0-80.0 IBU	0.1 IBU	1.5 IBU	11 mins
	Colour	EBC 1-100 SRM 0.5-50.0	EBC 1 SRM 0.1	EBC 1 SRM 0.3	1 min
	Alcohol content	0.002-0.200% vol	0.001% vol	0.002% vol	11 mins
	Alcohol content	0.10-1.00% vol	0.01% vol	0.01% vol	11 mins
	Alcohol content	1.0-17.0% vol	0.1% vol	0.2% vol	11 mins
-	VDKs	0.05 - 2.00 mg/L	0.01 mg/L	0.06 mg/L	5 mins + distillation time
Beer	Yeast Vitality	0.5 – 2.6 AP	0.1 AP	0.1 AP	25 mins
	Acetic acid	20 - 220 mg/L	1 mg/L	11 mg/L	6 mins
	рН	3.60-6.00	0.01	0.02	1 min
	Calcium	20-150 ppm	1 ppm	5 ppm	8 mins
	Starch	0.10-5.00 g/L	0.01 g/L	0.07 g/L	1 min
	Carbohydrates	2.0 – 80.0 g/L	0.1 g/L	0.6 g/L	13 mins
	FAN Free Amino Nitrogen by OPA	30 - 300 mg/L	1 mg/L	15 mg/L	4 mins
	Total SO ₂	1.0-30.0 ppm	0.1 ppm	0.7 ppm	2 mins
	Polyphenols	5-550 mg/L	1 mg/L	5 mg/L	10 mins
	Zinc	0.10-1.00 mg/L 0.90-10.00 mg/L	0.01 mg/L 0.01 mg/L	0.02 mg/L 0.16 mg/L	6 mins

In just 15 minutes, up to 16 samples can be analysed with CDR BeerLab $^{\circ}$ and up to 3 samples with the Junior model.

	TEST	Measuring range	Resolution	Repeatability	Test time
	Calcium	20.0-250.0 ppm	0.1 ppm	4 ppm	1 min
	Magnesium	2.0 - 50.0 ppm	0.1 ppm	1 ppm	1 min
	Bicarbonates	1 - 300 ppm	1 ppm	3 ppm	10 mins
Water	Chlorides	15 - 500 ppm	1 ppm	21 ppm	1 min
×	Potassium	5 - 500 ppm	1 ppm	6 ppm	1 min
	Sulfates	10 - 250 ppm	1 ppm	7 ppm	1 min
	Zinc	0.05 - 1.00 ppm	0.01 ppm	0.03 ppm	2 mins
	Alkalinity	5 - 600 mg/L	1 mg/L	12 mg/L	10 mins



CDRBeerLab® Jr





Analyses						
	Complete analysis panel	Customisable configuration				
Samples that can be anal	Samples that can be analysed simultaneously					
	16	3				
Multitasking Mode						
	Yes	No				
Calibration						
	Pre-calibrated No periodic calibration is necessary	Pre-calibrated No periodic calibration is necessary				
Maintenance costs						
	No	No				
Storage of results						
	Sufficient internal memory for storing thousands of analysis results in CVS and XML files compatible with all database formats (e.g., XLS, SQL)	Sufficient internal memory for storing thousands of analysis results CVS and XML files compatible with all database formats (e.g., XLS, SQL)				
Photometric module						
	Up to 6 wavelengths in 4 reading cells	Up to 6 wavelengths in 4 reading cells				
Incubation module						
	37 $^{\circ}$ C thermostated block with 16 positions	37°C thermostated reading block with 3 positions with incubation function				
Connection with barcode	Connection with barcode and QR code scanners					
	Yes, via Bluetooth	No				
Display						
	5.7" TFT colour LCD with touch screen	4.3" TFT colour LCD with touch screen				
Connectivity						
	1 USB port type B for transferring the performed analysis database, configuration and software update, PC connection 1 USB port type A for technical service and computer connection 1 Ethernet port (LAN) for connection to intranet	1 USB port type B for transferring the performed analysis database, configuration and software update, PC connection				
	Bluetooth 4.0	Bluetooth 2.1				
Printer						
	80 mm wide printer with integrated graphics	Wireless connection for external printer				
Dimensions and weight						
	32 x 29.5 x 13 cm (W x D x H) 2.80 kg	15 x 22 x 8,3 cm (W x D x H) 0,80 Kg				
Power supply						
	24 V	24 V or optional lithium-ion battery				













