Hach Orbisphere 6110 Total Package Analyzer



ApplicationsBeverage

Total Package analyzer for Oxygen & Carbon Dioxide measurements

The Orbisphere 6110 boasts the latest technology in final package analysis for measurements of Total Package Oxygen, Headspace Oxygen and Dissolved Oxygen; as well as dissolved Carbon Dioxide and Headspace Volume. It has been designed to meet the practical needs of both lab and at-line environments. The high-quality touch-screen facilitates measurement customization on all types and sizes of cans or bottles, as well as providing critical information on the health of the instrument. Utilization of this instrument has been proven to provide critical quality information of the final package, increasing process control and beverage quality.

Fast, Effective Operation

The 6110 delivers repeatable analysis with minimal operator intervention. The package positioning aid with laser crosshairs confirms optimal placement and the intuitive touch-screen interface ensures product sampling is completed quickly, easily, and consistently for both line operators and lab personnel. There is no sample preparation necessary for total package and head space oxygen analysis.

Reliable and Flexible

The 6110 Total Package analyzer operates on all types of cans and bottles due to its unique gas extraction and piercing system, resulting in reliable analysis with no container leakages. The CO_2 analysis measurement provides accurate results at any temperature, without having to warm the sample. The 6110 can also compensate CO_2 results for any package Nitrogen content – a perfect choice for analysis directly at the filler.

Gas Phase Measurement

The Hach Orbisphere 6110 analyzes beverages without removing any product from its container. The measurement takes place in the gas phase, so there is no direct liquid contact with the 6110's sensing technology or sampling path. This reduces maintenance by eliminating hassles such as bleaching tubing and replacing valves to prevent fouling.

Maximize the Uptime of your 6110 Total Package analyzer

Our expert service team works in partnership with you to provide professional start-up and commissioning and regular maintenance for your 6110 Total Package analyzer to ensure it is in the optimal condition. Please speak with your local Hach representative for service offerings in your region.



Technical Data*

Range	O ₂ : 1 ppb - 12 ppm	Package Type	Closure types: metallic, PET
naliye		гаскаде туре	51
	CO ₂ : 0.75 - 5 v/v or 1.5 - 10 g/kg		Package height: min. 90 mm (3.54 in.)
Repeatability (r95)	TPO: ±5 μg/L / ±10%,		max. 340 mm (13.39 in.)
	whichever is greater		Package volume: min. 150 mL
	CO ₂ : ±0.05 v/v or 0.10 g/kg ±2 %,		
	whichever is greater, measured on	Enclosure Rating	IP20
	equilibrated packages at 10 - 25 °C	Compliance	European directives: Low voltage
Typical Analysis Time	Approximately 4 minutes	Certifications	2006/95/EC; EMC 2004/108/EC
Units	O ₂ Concentration: ppb, ppm		Electromagnetic compatibility
	CO ₂ Concentration: v/v, g/kg, g/L %W		standards: EN61326
	Total Package Quantities:		Safety standard:
	mg, mL, mg/L,mL/L, μg/L		IEC/UL/CSA 61010-1
	Pressure: bar, mbar, psi		Safety of Laser products:
	Temperature: °F, °C, K		IEC/UL/CSA 60825-1
Operating Conditions	Package temperature: -2 - 30 °C (28 - 86 °F) Package pressure:	Display Type	Digital TFT VGA (640 x 480)
			colour touch screen
	1.4 - 6.8 bar (20 - 73 psi) Ambient	Communication	1x Ethernet, 1x USB-A
	temperature: 0 - 40 °C (32 - 104 °F)	Capabilities	
Laser Class	A Class 1 LASER is installed in this	Dimensions (H x W x D)	942 mm x 540 mm x 537 mm
	instrument.	Weight	55 kg
	Exposure to the beam of a Class 1	Installation	Power requirements:
	LASER will not result in eye injury.	Requirement	100/240 VAC, 50/60 Hz
	Intrabeam viewing of Class 1 laser		Purge gas: CO_2 with purity >99.9%
	products which emit visible radiant		at 6 to 7 bar abs (87 to 102 psi)
	energy may still produce dazzling		
	visual effects, particularly in low ambient light.		*Subject to change without notice.
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Order Information

DG6110-SYS	Hach Orbisphere 6110 Total Includes all consumables for operation.*	. ,	33117 DG33496 DG33497	Rubber seal, for piercing tip Piercing tip for metal closure Piercing tip for plastic closure
Accessories		DG33491	Kit of PTFE filters	
32301.A	Electrochemical sensor clear	ning and	33156	Antifoam recharge bottle, 1 Liter
	regeneration unit, 115 VAC		2956A-AT	Recharge cartridges for sensor
32301.B	Electrochemical sensor clear regeneration unit, 230 VAC	ning and	Validation Tools	
32816	Sample shaker		DG33373	Air injection starting kit
DG33526	OPC software kit		DG33374	Air injection recharge kit
			DG33254	Reference HS volume 16 mL
33002	Power cable with US plug		DG33255	Reference HS volume 25 mL
Consumable DG33520	One year consumables kit (ir DG33496, DG33491, 33156		Some of the items are only compatible with the latest 6110 version (V3). Ask your local Hach team for parts compatible with previous versions of the 6110.	

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