Chemical Oxygen Demand

HI83099 COD Meter and Multiparameter Photometer

- Easy COD measurement
- Outstanding measurement quality

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- Compact, multiparameter meter
- PC compatible
- 47 methods

The HI83099 is one of the most versatile photometers on the market. In addition to COD, this meter measures 44 of the most important water quality parameters using liquid or powder reagents. The amount of reagent is precisely dosed to ensure maximum reproducibility.

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The HI83099 bench photometer can be connected to a PC via a USB cable. The optional HI92000 Windows[®] Compatible Software helps users manage their data.

The HI83099 features a powerful interactive user support to assist during each step of the analysis process. A tutorial mode is also available in the setup menu.







Specifications	HI83099
Light Source	tungsten lamps with narrow band interference filters
Light Life	the life of the instrument
Light Detector	silicon photocell
Environment	0 to 50°C (32 to 122°F); RH max 90% non-condensing
Power Supply	external 12 VDC power adapter or built-in rechargeable battery
Dimensions	235 x 200 x 110 mm (9.2 x 7.87 x 4.33")
Weight	0.9 kg (2 lbs.)
Ordering Information	HI83099-01 (115V) and HI83099-02 (230V) is supplied with glass cuvettes with caps (4), cell protective cap, batteries, 12 VDC adapter, sample preparation kit (for turbidity or concentrated samples), cloth for wiping cuvettes, 60mL glass bottle for DO analysis, scissors, and instructions.

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COD Test	Range	Method	Reagent Code
CODLR	0 to 150 mg/L	dichromate EPA‡ dichromate mercury-free°° dichromate ISO°	HI93754A-25 HI93754D-25 HI93754F-25
COD MR	0 to 1500 mg/L	dichromate EPA‡ dichromate mercury-free°° dichromate ISO°	HI93754B-25 HI93754E-25 HI93754G-25
COD HR	0 to 15000 mg/L	dichromate	HI93754C-25

Range	Method	Reagent Code†
0 to 500 mg/L (ppm) as CaCO₃	bromocresol green	HI93755-01
0.00 to 1.00 mg/L	aluminon	HI93712-01
0.00 to 10.00 mg/L	Nessler	HI93715-01
0.00 to 3.00 mg/L	Nessler	HI93700-01
0.00 to 8.00 mg/L	DPD	HI93716-01
0 to 400 mg/L	oxalate	HI937521-01
0.00 to 2.00 mg/L	chlorophenol red	HI93738-01
0.00 to 2.50 mg/L	DPD	HI93701-01*
0.00 to 3.50 mg/L	DPD	HI93711-01*
0 to 1000 µg/L	diphenylcarbohydrazide	HI93723-01
0 to 300 μg/L	diphenylcarbohydrazide	HI93749-01
0 to 500 PCU	colorimetric platinum cobalt	-
0.00 to 5.00 mg/L	bicinchoninate	HI93702-01
0 to 1000 μg/L	bicinchoninate	HI95747-01
0 to 80 mg/L	turbidimetric	HI93722-01
0.00 to 2.00 mg/L	SPADNS	HI93729-01
0.00 to 2.70 mg/L	calmagite	HI93720-01
0.00 to 2.00 mg/L	EDTA	HI93719-01
0 to 400 µg/L	p-dimethylaminobenzaldehyde	HI93704-01
	DPD	HI93718-01
5	phenantroline	HI93721-01
	,	HI93746-01
		HI937520-0
		HI93709-01
	,	HI93748-01
		HI93730-01
		HI93726-01
		HI93740-01
		HI93728-01
		HI93708-01
		HI93708-01
-		HI93732-01
		HI93757-01
		HI93737-01
· ·		HI93717-01
		HI93713-01
5		
		HI93706-01
5		
		HI93705-01
0.000 to 1.000 mg/L	PAN	HI93737-01
0 to 150 mg/L	turbidimetric	HI93751-01
	0 0.00 0.00 to 500 mg/L (ppm) as CaCO ₃ 0.00 to 10.00 mg/L 0.00 to 3.00 mg/L 0.00 to 3.00 mg/L 0.00 to 400 mg/L 0.00 to 2.00 mg/L 0.00 to 3.00 mg/L 0.00 to 3.00 mg/L 0.00 to 3.50 mg/L 0.00 to 3.50 mg/L 0.to 1000 µg/L to 1000 µg/L 0.to 500 PCU to to 80 mg/L 0.00 to 2.00 mg/L 0.00 to 2.00 mg/L 0.00 to 2.00 mg/L 0.00 to 2.00 mg/L 0.00 to 3.00 mg/L 0.00	0 to 500 mg/L (ppm) as CaCOabromocresol green0.00 to 1.00 mg/Laluminon0.00 to 3.00 mg/LNessler0.00 to 3.00 mg/LDPD0.00 to 3.00 mg/Lchlorophenol red0.00 to 2.00 mg/LChlorophenol red0.00 to 2.50 mg/LDPD0.00 to 3.50 mg/LDPD0.00 to 3.50 mg/LDPD0.00 to 3.50 mg/LDPD0.00 to 3.50 mg/Ldiphenylcarbohydrazide0 to 1000 µg/Lcolorimetric platinum cobalt0.00 to 5.00 mg/Lbicinchoninate0 to 1000 µg/Lbicinchoninate0 to 1000 µg/Lcolorimetric platinum cobalt0.00 to 5.00 mg/LSPADNS0.00 to 2.00 mg/LSPADNS0.00 to 2.00 mg/LBDTA0.00 to 2.00 mg/LPD0.00 to 3.50 mg/Lpreidate0.00 to 2.00 mg/LPD0.00 to 2.00 mg/LPD0.00 to 5.00 mg/Lperiodate0.00 to 3.00 mg/LPAN0.00 to 5.00 mg/LPAN0.00 to 3.00 mg/LPAN0.01 to 3.00 mg/LPAN0.01 to 3.00 mg/LPAN0.01 to 3.00 mg/LGadinum reduction0.11 50 mg/LGatization0.00 to 3.00 mg/LJDPD6.51 to 8.5 pHphenol red0.01 to 3.00 mg/Lamino acid0.00 to 2.00 mg/Lwitkliemetric tetraphenylborate0.01 to 3.00 mg/Lturbidime

HI3898 Chloride Test Kit



Quick Chloride Tests

The HI3898 is a chloride concentration test kit developed according to the ISO 15705:2002 method.

This very important test is recommended by ISO, since an excessive presence of chloride can interfere with the COD analysis.

This test gives a fast YES/NO reply to the question if chloride will interfere with the COD analysis. If chloride concentration is greater than the official maximum level, the solution turns yellow and the sample needs to be diluted before performing the COD test, otherwise if the solution is orange-brown, the sample doesn't need to be diluted.

The maximum level allowed is 1000 ppm of Cl⁻ following ISO methods, or 2000 ppm of CI⁻ for US EPA, APHA, AWWA and WEF methods.

Specifications HI3898

Range	1000 ppm Cl ⁻ (ISO) 2000 ppm Cl ⁻ (EPA)
Analysis Method	visual evaluation
Sample Volume	2 mL
Number of Tests	100
Dimensions	120 x 110 x 90 mm (4.7 x 4.3 x 3.5")
Weight	200 g (7.0 oz.)

Ordering Information

HI3898 is supplied with 25 mL chloride titrant (4), chloride Indicator 7 mL (1), glass cuvette with plastic stopper (1) and calibrated syringe with tip (2).

Notes: † Method with chromium-sulfuric acid is officially recognized by EPA for

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