

HI83099

COD Meter and Multiparameter Photometer



- Up to 47 measurement methods including COD
- Backlit Graphic LCD Display
 - The HI83099 features a backlit graphic display with virtual keys and on-screen help to provide for an intuitive user interface.
- Data Logging
 - Users can store up to 200 readings by simply pressing the dedicated LOG button. Logged readings are easily recalled by pressing the RCL button.
- PC Connectivity
 - Logged readings can be transferred to a PC via USB using the HI92000 Windows® compatible software.
- Result Conversion
 - Eliminates confusion by automatically converting readings to other chemical forms. Common conversions are available at the touch of a button.
- On-screen Tutorial
 - With the tutorial function enabled, short guides relating to the current operation are displayed.
- Auto-shut off
 - Automatic shut off after 10 minutes of non-use when the meter is in measurement mode and operating on the internal rechargeable battery.
- Battery Status Indicator
- Built-in Timer
 - Display of time remaining before a measurement is taken. Ensures that all readings are taken at the appropriate reaction intervals for the test being performed.
- Error Messages
 - Messages on display alerting to problems including no cap, high zero, and standard too low.
- Cuvette Cover
 - Aids in stopping stray light from affecting measurements.
- Cooling Lamp Indicator
 - To maintain the desirable wavelength to be used for absorbance, it is necessary to ensure components are not overheated from the heat generated by the tungsten lamp. Each photometer is designed to allow a minimal amount of time for components to cool.



One of the most versatile photometers in the market

From aluminum to zinc, the HI83099 benchtop photometer offers 47 measurement methods for different key water quality parameters, including chemical oxygen demand (COD) in 3 different ranges. This photometer features an advanced optical system that uses special tungsten lamps, narrow band interference filters, and silicon photodetectors to ensure accurate photometric readings every time. The HI83099 uses a graphic backlit LCD that allows for an intuitive user interface, offering a tutorial mode that gives a step-by-step procedure for performing a measurement. The result obtained can be displayed in various chemical forms based on the user's preference. For tracking of data, results can be logged and then exported to a Windows® compatible PC using the HI92000 software and HI920013 USB cable.

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.

LINE ID:neonicstool



ติดต่อบริษัท เนโอเนิกส์ จำกัด

Tel: 02-077-7602 หรือ 061-8268939

E-mail: sale@neonics.co.th เว็บไซต์ www.neonics.biz

Screen Features

COD Test	Range	Method	Reagent Code
COD LR	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

Water Quality Test	Range	Method	Reagent Code†
Alkalinity	0 to 500 mg/L (ppm) as CaCO ₃	bromocresol green	HI93755-01
Aluminum	0.00 to 1.00 mg/L	aluminon	HI93712-01
Ammonia MR	0.00 to 10.00 mg/L	Nessler	HI93715-01
Ammonia LR	0.00 to 3.00 mg/L	Nessler	HI93700-01
Bromine	0.00 to 8.00 mg/L	DPD	HI93716-01
Calcium	0 to 400 mg/L	oxalate	HI937521-01
Chlorine Dioxide	0.00 to 2.00 mg/L	chlorophenol red	HI93738-01
Chlorine, Free	0.00 to 2.50 mg/L	DPD	HI93701-01*
Chlorine, Total	0.00 to 3.50 mg/L	DPD	HI93711-01*
Chromium VI HR	0 to 1000 µg/L	diphenylcarbohydrazide	HI93723-01
Chromium VI LR	0 to 300 µg/L	diphenylcarbohydrazide	HI93749-01
Color of Water	0 to 500 PCU	colorimetric platinum cobalt	-
Copper HR	0.00 to 5.00 mg/L	bicinchoninate	HI93702-01
Copper LR	0 to 1000 µg/L	bicinchoninate	HI95747-01
Cyanuric Acid	0 to 80 mg/L	turbidimetric	HI93722-01
Fluoride	0.00 to 2.00 mg/L	SPADNS	HI93729-01
Hardness, Calcium	0.00 to 2.70 mg/L	calmagite	HI93720-01
Hardness, Magnesium	0.00 to 2.00 mg/L	EDTA	HI93719-01
Hydrazine	0 to 400 µg/L	p-dimethylaminobenzaldehyde	HI93704-01
Iodine	0.0 to 12.5 mg/L	DPD	HI93718-01
Iron HR	0.00 to 5.00 mg/L	phenantroline	HI93721-01
Iron LR	0 to 400 µg/L	TPTZ	HI93746-01
Magnesium	0 to 150 mg/L	calmagite	HI937520-01
Manganese HR	0.0 to 20.0 mg/L	periodate	HI93709-01
Manganese LR	0 to 300 µg/L	PAN	HI93748-01
Molybdenum	0.0 to 40.0 mg/L	mercaptoacetic acid	HI93730-01
Nickel HR	0.00 to 7.00 g/L	photometric	HI93726-01
Nickel LR	0.000 mg/L to 1.000 mg/L	PAN	HI93740-01
Nitrate	0.0 to 30.0 mg/L	cadmium reduction	HI93728-01
Nitrite HR	0 to 150 mg/L	ferrous sulfate	HI93708-01
Nitrite LR	0.00 to 1.15 mg/L	diazotization	HI93707-01
Oxygen, Dissolved (DO)	0.0 to 10.0 mg/L	Winkler	HI93732-01
Ozone	0.00 to 2.00 mg/L	DPD	HI93757-01
pH	6.5 to 8.5 pH	phenol red	HI93710-01
Phosphate HR	0.0 to 30.0 mg/L	amino acid	HI93717-01
Phosphate LR	0.00 to 2.50 mg/L	ascorbic acid	HI93713-01
Phosphorus	0.0 to 15.0 mg/L	amino acid	HI93706-01
Potassium HR	20 to 200 mg/L	turbidimetric tetraphenylborate	HI93750-01
Potassium MR	10 to 100 mg/L	turbidimetric tetraphenylborate	HI93750-01
Potassium LR	0.0 to 20.0 mg/L	turbidimetric tetraphenylborate	HI93750-01
Silica	0.00 to 2.00 mg/L	heteropoly blue	HI93705-01
Silver	0.000 to 1.000 mg/L	PAN	HI93737-01
Sulfate	0 to 100 mg/L	turbidimetric	HI93751-01
Zinc	0.00 to 3.00 mg/L	zincon	HI93731-01

Notes:

† Method with chromium-sulfuric acid is officially recognized by EPA for wastewater analysis.

° The HI93754F-25 and HI93754G-25 method follows the official method ISO 15705.

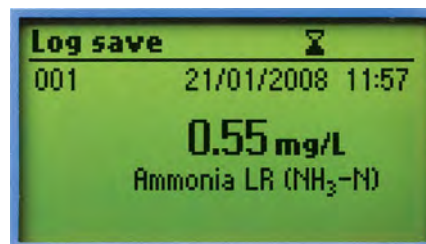
** This method is recommended for general purpose analysis with no chloride interference.

* For Chlorine, liquid reagents also available.

ติดต่อบริษัท นีโอนิกส์ จำกัด

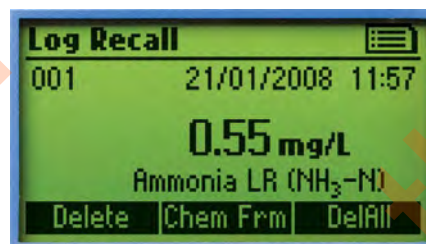
Tel: 02-077-7602 หรือ 061-8268939

E-mail: sale@neonics.co.th เว็บไซต์ www.neonics.biz



• Data Logging

- Up to 200 measurement readings can be logged and recalled for future use.



• Log Recall

- Logged data can easily be recalled and the chemical form can be converted at the touch of a button.



• Method Selection

- Users can easily select any one of the 47 measurement methods via the dedicated METHOD button.



• Help screen

LINE ID:neonicstool

