HI83214

COD Meter and Multiparameter Photometer

for Wastewater Analysis

• Backlit Graphic LCD Display

· Data Logging

Users can store up to 200 readings by simply pressing the LOG key. Logged readings are recalled by pressing the dedicated RCL button. Stored data includes parameter, test results, sample number, lot number, instrument ID, date and time.

PC Connectivity

· 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

· 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.

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.

From ammonia to phosphorus, the HI83214 benchtop photometer offers 15 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 HI83214 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.



Specifications	HI83214	
Light Source	tungsten lamps with narrow-band interference filters	
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	
Dimensions	235 x 200 x 110 mm (9.2 x 7.87 x 4.33")	
Weight	0.9 kg (2 lbs.)	

COD Test	Range	Method	Code
CODLR	0 to 150 mg/L	dichromate EPA‡ dichromate mercury-free°° dichromate ISO°	H193754A-25 H193754D-25 H193754F-25
CODMR	0 to 1500 mg/L	dichromate EPA‡ dichromate mercury-free°° dichromate ISO°	H193754B-25 H193754E-25 H193754G-25
COD HR	0 to 15000 mg/L	dichromate	HI93754C-25

Parameter	Range	Method	Reagent Code	
Ammonia, LR	0.00 to 3.00 mg/L	Nessler	HI93764A-25	
Ammonia, HR	0 to 100 mg/L	Nessler	HI93764B-25	
Chlorine, Free	0.00 to 5.00 mg/L	DPD	HI93701-01, HI93701-03	
Chlorine, Total	0.00 to 5.00 mg/L	DPD	HI93711-01, HI93711-03	
Nitrate	0.0 to 30.0 mg/L	chromotropic acid	HI93766-50	
Nitrogen, Total	0.0 to 25.0 mg/L	chromotropic acid	HI93767A-50	
Nitrogen, Total HR	10 to 150 mg/L	chromotropic acid	HI93767B-50	
Phosphorus, Reactive	0.00 to 5.00 mg/L	ascorbic acid	HI93758A-50	
Phosphorus, Acid Hydrolyzable	0.00 to 5.00 mg/L	ascorbic acid	HI93758B-50	
Phosphorus, Total	0.00 to 3.50 mg/L	ascorbic acid	HI93758C-50	
Phosphorus, Reactive HR	0.0 to 100.0 mg/L	vanadomolybdophosphoric acid	HI93763A-50	
Phosphorus, Total HR	0.0 to 100.0 mg/L	vanadomolybdophosphoric acid	HI93763B-50	
Ordering Information	HI83214-01 (115V) and HI83214-02 (230V) is supplied with glass cuvettes (5), 9V batteries (2), 12 VDC adapter and instructions			

Reagent

