

C 214 - A Complete System for Waste Water Analysis

The new HI 83214 multi-parameter photometer is a compact instrument featuring different ranges and methods, suitable for a wide range of applications.

HI 83214 is designed and built to perform COD analysis in accordance with EPA 410.4 and ISO 15705:2002 standards.

Ensuring accurate and repeatable results, it is the ideal tool for documenting water treatment processes.

Besides the fundamental parameter of C.O.D., HI 83214 also measures total ammonia nitrogen and total reagent phosphorus.

The instrument can be connected to a PC through an RS232 serial port and all stored measurements can be downloaded to a PC using HANNA instruments' HI 92000 software.

HI 83214, allows a complete wastewater analysis with a single powerful instrument.

Specifications

Light Source	3 tungsten lamps with narrow band interference filter 420/525/610 nm
Light Detector	4 Silicon Photocells
Power Supply	2 x 9V battery or 12 Vdc adapter
Auto-off	after 10 minutes of non-use
Environment	0 to 50°C (32 to 122°F); RH max 95% non-condensing
Dimensions / Weight	230 x 165 x 70 mm / 640 g

Ordering Information

HI 83214 is supplied complete with 5 cuvettes, 1 cuvette-holder, batteries, 12 Vdc adapter and instructions.



Parameter	Range	Method	Reagent Code
Ammonia, LR	0.00 to 3.00 mg/L	Nessler	HI 93764A-25
Ammonia, HR	0 to 100 mg/L	Nessler	HI 93764B-25
Chlorine, Free	0.00 to 5.00 mg/L	DPD	HI 93701-01, HI 93701-03
Chlorine, Total	0.00 to 5.00 mg/L	DPD	HI 93711-01, HI 93711-03
Nitrate	0.0 to 30.0 mg/L	Chromotropic acid	HI 93766-50
Nitrogen, Total	0.0 to 25.0 mg/L	Chromotropic acid	HI 93767A-50
Nitrogen, Total HR	10 to 150 mg/L	Chromotropic acid	HI 93767B-50
COD LR, EPA*	0 to 150 mg/L	Dichromate	HI 93754A-25
COD MR, EPA*	0 to 1500 mg/L	Dichromate	HI 93754B-25
COD HR	0 to 15000 mg/L	Dichromate	HI 93754C-25
COD LR, Mercury-free***	0 to 150 mg/L	Dichromate, mercury-free	HI 93754D-25
COD MR, Mercury-free***	0 to 1500 mg/L	Dichromate, mercury-free	HI 93754E-25
COD LR, ISO**	0 to 150 mg/L	Dichromate	HI 93754F-25
COD MR, ISO**	0 to 1000 mg/L	Dichromate	HI 93754G-25
Phosphorus, Reactive	0.00 to 5.00 mg/L	Ascorbic acid	HI 93758A-50
Phosphorus, Acid Hydrolyzable	0.00 to 5.00 mg/L	Ascorbic acid	HI 93758B-50
Phosphorus, Total	0.00 to 3.50 mg/L	Ascorbic acid	HI 93758C-50
Phosphorus, Reactive HR	0.0 to 100.0 mg/L	Vanadomolybdophosphoric acid	HI 93763A-50
Phosphorus, Total HR	0.0 to 100.0 mg/L	Vanadomolybdophosphoric acid	HI 93763B-50

Notes:

* Method with chromium-sulphuric acid is officially recognized by EPA for wastewater analysis.

** The HI 93754F-25 and HI 93754G-25 method follows the official method ISO 15705.

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

Accessories

HI 92000	Windows® compatible software	HI 3898	Test kit for Chloride interference
HI 920010	Serial cable for PC connection		

For a comprehensive list of accessories, see sections U and V