

# Multiparameter Photometer for Industrial Wastewater

10

PHOTOMETERS



Pollution and excessive use seriously compromise the availability of fresh water around the world. In order to reduce the impact of industrial operators, there are numerous processes that can be used to clean up the wastewaters depending on the type and extent of contamination. Most wastewater is treated at an industrial scale at wastewater treatment plants, which may include physical, chemical and biological treatment processes.

The quality of wastewater which can be discharged by industrial users is strictly limited by regulations.

HI 83207 is a multiparameter bench meter that measures twenty methods essential for industrial wastewater analysis. It has four channels to allow a wide range of tests.

The optical system of HI 83207 is based on special subminiature tungsten lamps and narrow-band interference filters to guarantee both high performance and reliable results.

HI 83207 has a powerful interactive user support that assists the user during the analysis process. A full tutorial is available in the Setup Menu, and the Help Menu provides assistance for every step in the measurement process. This meter can be connected to a PC via a USB cable, where the data can be managed with optional HI 92000 Windows® compatible software.

**ADP** 20  
Application Designed Photometers methods



## ORDERING INFORMATION

HI 83207-01 (115V) and HI 83207-02 (230V) are supplied with sample cuvettes with caps (4 ea.), cloth for wiping cuvettes, 60 mL glass bottle for dissolved oxygen analysis, scissors, AC/DC power adapter and instruction manual

TEST	RANGE	METHOD	REAGENT CODE <sup>1</sup>
Aluminum	0.00 to 1.00 mg/L (ppm)	Aluminon	HI 93712-01
Chlorine*, Free	0.00 to 2.50 mg/L (ppm)	DPD	HI 93701-01
Chlorine*, Total	0.00 to 3.50 mg/L (ppm)	DPD	HI 93711-01
Color of Water	0 to 500 PCU	Platinum Cobalt	-
Copper HR	0.00 to 5.00 mg/L (ppm)	Bicinchoninate	HI 93702-01
Copper LR	0 to 1000 µg/L	Bicinchoninate	HI 95747-01
Fluoride	0.00 to 2.00 mg/L (ppm)	SPADNS	HI 93729-01
Manganese HR	0.0 to 20.0 mg/L (ppm)	Periodate	HI 93709-01
Manganese LR	0 to 300 µg/L	PAN	HI 93748-01**
Molybdenum	0.0 to 40.0 mg/L (ppm)	Mercuraptoacetic Acid	HI 93730-01
Nickel HR	0.00 to 7.00 g/L	Photometric	HI 93726-01
Nickel LR	0.000 to 1.000 mg/L (ppm)	PAN	HI 93740-01**
Nitrate	0.0 to 30.0 mg/L (ppm)	Cadmium Reduction	HI 93728-01
Oxygen, Dissolved (DO)	0.0 to 10.0 mg/L (ppm)	Winkler	HI 93732-01
pH	6.5 to 8.5 pH	Phenol Red	HI 93710-01
Phosphate HR	0.0 to 30.0 mg/L (ppm)	Amino Acid	HI 93717-01
Phosphate LR	0.00 to 2.50 mg/L (ppm)	Ascorbic Acid	HI 93713-01
Phosphorus	0.0 to 15.0 mg/L (ppm)	Amino Acid	HI 93706-01
Silver	0.000 to 1.000 mg/L (ppm)	PAN	HI 93737-01**
Zinc	0.00 to 3.00 mg/L (ppm)	Zincon	HI 93731-01

Reagents are available in liquid or powder form, and the amount of each reagent is precisely divided to ensure maximum repeatability.

<sup>1</sup> Unless noted otherwise, all reagent codes ending with -01 are for 100 tests. Replace the -01 with -02 for 300 tests.

\*For Chlorine, liquid reagents are available. \*\* Reagents for Chlorine

For a complete list of Reagents, see Reagents Section 18.