



# HI 83 Series

## Multiparameter Photometers

Easy-to-operate

User-friendly prompts and auto-diagnostic messages

Up to 36 parameters shown directly on a large LCD

Built-in RS232 interface

Application specific models for tailored measurements

 **HANNA**<sup>®</sup>  
instruments  
With Great Products, Come Great Results™

# HI 83 Series

## Multiparameter Photometers



## Keeping your needs in mind.

Since 1978, HANNA's philosophy has been founded on the introduction of instruments developed according to the needs of a specific application or industry. From this philosophy comes our new ADP: Application Designed Photometers series. The ADP series features 18 application designed photometers at your disposal to satisfy the needs of your specific activity.

## Compact and lightweight, these meters weigh less than 1 ½ lbs!

PARAMETER	RANGE
Alkalinity	0 to 500 mg/L
Aluminum	0.00 to 1.00 mg/L
Ammonia HR	0.0 to 50.0 mg/L
Ammonia MR	0.00 to 10.00 mg/L
Ammonia LR	0.00 to 3.00 mg/L
Bromine	0.00 to 8.00 mg/L
Free Chlorine HR	0.0 to 10.0 mg/L
Free Chlorine	0.00 to 2.50 mg/L
Total Chlorine HR	0.0 to 10.0 mg/L
Total Chlorine	0.00 to 3.50 mg/L
Chlorine Dioxide	0.00 to 2.00 mg/L
Chromium VI HR	0 to 1000 µg/L
Chromium VI LR	0 to 300 µg/L
Color	0 to 500 PCU
Copper HR	0.00 to 5.00 mg/L
Copper LR	0 to 1000 µg/L
Cyanide	0.000 to 0.200 mg/L
Cyanuric Acid	0 to 80 mg/L
Fluoride	0.00 to 2.00 mg/L
Hardness, Total HR	400 to 750 mg/L
Hardness, Total MR	200 to 500 mg/L
Hardness, Total LR	0 to 250 mg/L
Ca Hardness	0.00 to 2.70 mg/L

PARAMETER	RANGE
Mg Hardness	0.00 to 2.00 mg/L
Hydrazine	0 to 400 µg/L
Iodine	0.0 to 12.5 mg/L
Iron HR	0.00 to 5.00 mg/L
Iron LR	0 to 400 µg/L
Manganese HR	0.0 to 20.0 mg/L
Manganese LR	0 to 300 µg/L
Molybdenum	0.0 to 40.0 mg/L
Nickel HR	0.00 to 7.00 g/L
Nickel LR	0.000 to 1.000 mg/L
Nitrate	0.0 to 30.0 mg/L
Nitrite HR	0 to 150 mg/L
Nitrite LR	0.00 to 0.35 mg/L
Oxygen, Dissolved	0.0 to 10.0 mg/L
pH	6.5 to 8.5 pH
Phosphate HR	0.0 to 30.0 mg/L
Phosphate LR	0.00 to 2.50 mg/L
Phosphorus	0.0 to 15.0 mg/L
Silica	0.00 to 2.00 mg/L
Silver	0.000 to 1.000 mg/L
Zinc	0.00 to 3.00 mg/L

### MODELS/APPLICATION

<b>HI 83200</b>	<b>Laboratories</b>
<b>HI 83203</b>	<b>Aquaculture</b>
<b>HI 83205</b>	<b>Boiler &amp; Cooling Towers</b>
<b>HI 83206</b>	<b>Environmental Testing</b>
<b>HI 83207</b>	<b>Industrial Wastewater</b>
<b>HI 83208</b>	<b>Water Conditioning</b>
<b>HI 83209</b>	<b>Education</b>
<b>HI 83210</b>	<b>Pulp &amp; Paper Mill</b>
<b>HI 83211</b>	<b>Chemical Manufacturers</b>
<b>HI 83212</b>	<b>Power Utilities</b>
<b>HI 83213</b>	<b>Municipal Wastewater</b>
<b>HI 83215</b>	<b>Nutrient Analysis</b>
<b>HI 83216</b>	<b>Swimming Pools</b>
<b>HI 83226</b>	<b>Swimming Pools</b>
<b>HI 83218</b>	<b>Environmental Applications</b>
<b>HI 83221</b>	<b>Honey Color Analyzer</b>
<b>HI 83099</b>	<b>COD Laboratory</b>
<b>HI 83214</b>	<b>COD Wastewater</b>

See back cover for the list of parameters for each model.



HANNA's HI 83 series has been completely developed in our own research and development laboratories employing the latest technology. HANNA's HI 83 series multiparameter photometers are constructed of high quality components to guarantee a high level of accuracy while still being easy to operate.

## Fast & Easy

Measuring up to 36 parameters has never been easier. The front of the instrument lists all the parameters numerically. The display shows the same number for a quick reference during testing. Just select the parameter, zero the instrument, add reagents, and measure!

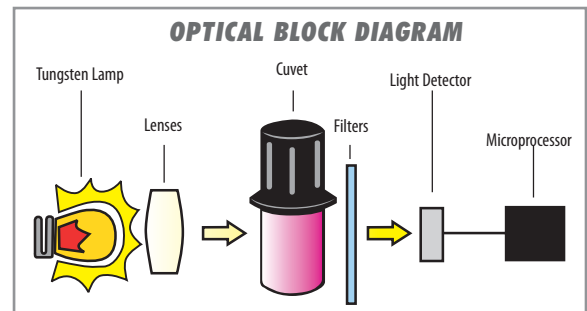
The 83 Series runs for hours on common, inexpensive, 9V batteries. In addition, it can operate continuously with the including power adapter. It is also extremely simple to use. The front mask lists all of the parameters in numerical order and the display shows the same numbers for a quick reference during testing.

## Accuracy and Precision with HI 83 Series Optical System

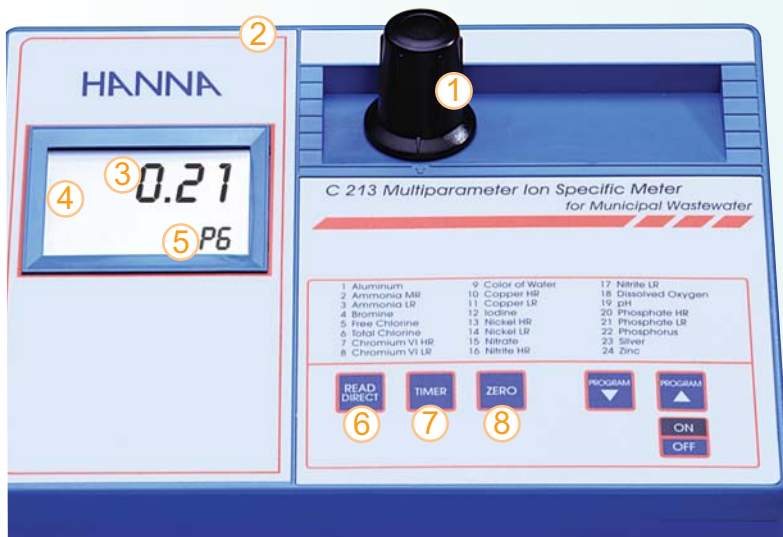
The HI 83 series multiparameter photometers use an advanced optical system which combines a tungsten lamp and a narrow band interference filter. It also allows the most accurate and repeatable readings in 420, 525, 575, and 620 nm wavelengths. The HI 83 series optical system, with its ability to measure accurately on four different wavelengths, allows the instrument to test a wide range of parameters.

The meter can be zeroed in seconds and the reagents cost much less than what you have been paying. All this and much more at a fraction of the cost of expensive and complex spectrophotometers! All meters use an exclusive positive-locking system to ensure that the cuvet is in the same position every time it is placed into the measurement cell.

A built-in RS232 port ensures that data can be downloaded to your PC for further study. Use our optional HI 92000 Windows compatible software to get the most out of your meter.



**The HI 83series bench meters can also run with batteries (2 x 9V) for more than 2000 readings - useful for those spots where power outlets are not readily available.**



- ① The cuvet fits perfectly in the holder to accurately test the sample.
- ② With a built-in RS232 interface, you can download all the data to your PC (with optional cable and software).
- ③ Up to 36 parameters shown directly on the large dual-level LCD.
- ④ The LCD provides user-friendly prompts and auto-diagnostic messages.
- ⑤ Program numbers are displayed on the lower level of the LCD.
- ⑥ Simply press "Read Direct" and the measurement is visualized in seconds.
- ⑦ Counts down the amount of time needed for the chemical reaction - an important feature to ensure an accurate measurement.
- ⑧ Calibrates the meter with your sample to ensure an accurate measurement every time.

