



C 200 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



C 200 Series

Multiparameter Photometers

Hanna's C 200 series has been completely developed in our own research and development laboratories employing the latest technology. Hanna's C 200 series multiparameter photometers are constructed of high quality components to guarantee a high level of accuracy while still being easy to operate.

Fast & Easy

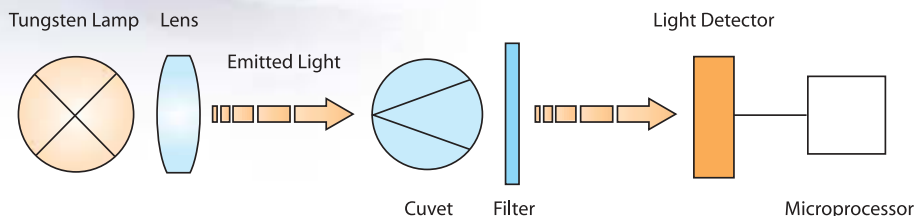
Measuring up to 36 parameters has never been easier. The front of the instrument lists all the parameters numerically. The display shows the same number for a quick reference during testing. Just select the parameter, zero the instrument, add reagents, and measure!

Portable Laboratory Quality

The C 200 series photometers provide lab-grade accuracy even in the field. Powered by two common 9V batteries, the C 200 series can accompany you wherever you go. The battery powers the unit for 40 hours of continuous use. A built-in feature warns you when battery power is low.

Accuracy and Precision with C 200 Series Optical System

The C 200 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 C 200 optical system, with its ability to measure accurately on four different wavelengths, allows the instrument to test a wide range of parameters.



The C 200 series 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.



Application Designed 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 the new **ADP series**. The **ADP: Application Designed Photometers** series features 14 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
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

- C 200** Laboratories
- C 203** Aquaculture
- C 205** Boiler & Cooling Towers
- C 206** Environmental Testing
- C 207** Industrial Wastewater
- C 208** Water Conditioning
- C 209** Education
- C 210** Pulp & Paper Mill
- C 211** Chemical Manufacturers
- C 212** Power Utilities
- C 213** Municipal Wastewater
- C 215** Nutrient Analysis
- C 216** Swimming Pools
- C 218** Environmental Applications

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



Application Designed Photometers



Models by Parameter

	Aluminum	Ammonia LR	Ammonia MR	Ammonia HR	Bromine	Chlorine Dioxide	Chlorine Free LR	Chlorine Free HR	Chlorine Total LR	Chlorine Total HR	Chromium VI HR	Chromium VI LR	Color of water	Copper LR	Copper HR	Cyanide	Cyanuric acid	Fluoride	Hardness Ca	Hardness Mg	Hardness Total LR	Hardness Total MR	Hardness Total HR	Hydrazine	Iodine	Iron LR	Iron HR	Manganese LR	Manganese HR	Molybdenum	Nickel LR	Nickel HR	Nitrate LR	Nitrate MR	Nitrate HR	Nitrite LR	Nitrite HR	Oxygen, Dissolved	pH	Phosphate LR	Phosphate HR	Phosphorus LR	Phosphorus MR	Phosphorus HR	Potassium LR	Potassium MR	Potassium HR	Silica	Silver	Sulfate	Zinc			
C 200	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•					
C 203	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•				
C 205	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•			
C 206	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
C 207	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
C 208	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
C 209	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
C 210	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
C 211	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•		
C 212	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
C 213	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	
C 215	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
C 216	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•
C 218	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•	•

All models are supplied with two sample cuvetts and caps*, one transport cap, two 9V batteries and 12 VDC transformer.
 *C 200, C 206, C 207, C 209, C 210 and C 213 are supplied with 3 cuvetts and caps.

Specifications

Principle of Operation	Interference Filter Photometer with four different wavelengths
Light Source	Tungsten subminiature lamp 5V-0 115A
Bulb Life	Life of instrument
Central Wavelengths	420 nm/525 nm/575 nm/610 nm/(466 nm only for C 216)
Wavelength Accuracy	±2 nm Full Scale
Spectral Bandwidth	Typical 12 nm
Power Supply	12-20 VDC through voltage adapter or two 9V batteries
Battery Life	40 hours of continuous use
Auto Shut-off	After 10 minutes of non-use
Dimensions	9.0 x 6.5 x 2.8" (230 x 165 x 70 mm)
Weight	22.6 oz. (640 g)

Accessories

HI 93703-50	Cuvet cleaning solution (230 mL)
HI 731321	Glass cuvetts (4 pcs)
HI 731318	Tissue for wiping cuvetts (4 pcs)
HI 740036	100 mL plastic beaker
HI 740034	Cap for 100 mL beaker (6 pcs)
HI 740143	1 mL graduated syringe (6 pcs)
HI 92000	Windows® compatible software
HI 920010	PC connection cable

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