

FIELD Environmental Instruments

Equipment Rental and Field Supplies

HACH

DR/2010

Portable Spectrophotometer

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DESCRIPTION

The DR/2010 is a microprocessor-controlled, single-beam, portable datalogging spectrophotometer designed for colorimetric testing in the laboratory or in the field.

As the successor to the popular Hach Model DR/2000, it offers levels of performance, convenience and economy beyond compare.

Significant updates in electronics and software, plus the addition of datalogging capabilities, make the DR/2010 Portable Spectrophotometer ideal for all water quality monitoring programs.

SPECIFICATIONS:

Wavelength range:	400 to 900 nm
Bandwidth:	7 nm nominal @ 600 nm
Dynamic Range:	0 to 2 A (100:1)
Stray Light:	< 1.0% at 400 nm
Wavelength Accuracy:	± 2 nm, 400 to 700 nm; ± 3 nm, 700 to 900 nm
Optical System:	Littrow Prism, Aspheric Optics
Wavelength Selection:	Manual
Wavelength Readout:	3-digit Liquid crystal display (LCD), 0.5 cm Character Height
Photometric Linearity:	± 0.002 A (0 to 1 A at 546 nm, Constant-on Mode)
Source Lamp:	Gas-filled Tungsten
Bulb Life:	2000 hours, >1,000,000 Measurement Cycles
Detector:	Silicon Photodiode, UV Enhanced
Temperature Range:	0 to 40 °C (32 to 104 °F) Operating Range
Data Readout:	4-digit LCD, 1.5-cm Character Height
Message Display:	16 Character LCD, Dot-Matrix, 0.6-cm Character Height
Data Storage:	Software Stores up to 1000 Readings
Operation Modes:	Press-to-read (momentary) or Constant-on
Readout Modes:	Transmittance, Absorbance, Concentration
Decimal Location:	Hach Programs: Automatic; User Programs: Selected
Readout Languages:	Selectable by Menu: Dutch, English, French, German, Japanese, Portuguese, or Spanish
External Outputs:	RS232 Serial Interface
Line Power:	Selectable 115/230 Vac, 50/60 Hz
Battery Power:	Optional Rechargeable 8 V Sealed or 6-battery "D" Cell Pack
Battery Weight:	1.7 kg (3.75 lb) Rechargeable
Dimensions:	22 x 24 x 11 cm (8.75 x 9.5 x 4.37")
Weight:	2 kg (4.4 lb)

TESTS

Aluminum
Arsenic (USEPA)
Barium
Barium (AccuVac®)
Benzotriazole
Boron
Boron, LR
Bromine
Bromine (AccuVac)
Cadmium
Chloride
Chlorine, Total (AccuVac) (USEPA)
Chlorine, Total, HR
Chlorine, Total (USEPA)
Chlorine, Total Ultra LR
Chlorine, Total TNT
Chlorine, Free (AccuVac) (USEPA)
Chlorine, Free, HR
Chlorine, Free TNT
Chlorine, Free (USEPA)
Chlorine, Free and Total RL
Chlorine Dioxide, HR
Chlorine Dioxide, LR
Chlorine Dioxide
Chromium, Total
Chromium, Hexavalent (USEPA)
Chromium, Hexavalent (AccuVac) (USEPA)
Cobalt
COD, Oxygen Demand, Chemical, Mn
COD, Oxygen Demand, Chemical, HR+ (USEPA)
COD, Oxygen Demand, Chemical, HR (USEPA)
COD, Oxygen Demand, Chemical, HR (USEPA)
COD, Oxygen Demand, Chemical, LR (USEPA)
Color, NCASI 253
Color, True & Apparent
Copper, Autocatalytic
Copper (AccuVac) (USEPA)
Copper
Copper (USEPA)
Cyanide
Cyanuric Acid
Fluoride (Reagent solution) (USEPA)
Fluoride (AccuVac) (USEPA)
Formaldehyde
Hardness, Total, ULR
Hardness, ULR RL
Hardness, Calcium or Magnesium as CaCO₃
Hydrazine
Hydrazine (AccuVac)
Iodine
Iodine (AccuVac)
Iron RL
Iron, Ferrous (AccuVac)
Iron, Total (USEPA)
Iron, Total (AccuVac) (USEPA)
Iron, Total
Iron, Total (AccuVac)
Iron, Ferrous
Lead (LeadTrak™)
Lead (USEPA)
Manganese, LR
Manganese, HR (USEPA)
Mercury
Molybdenum, Molybdate, LR

Molybdenum, Molybdate, HR
Molybdenum, Molybdate, HR (AccuVac)
Nickel (USEPA)
Nickel
Nickel, Autocatalytic
Nitrogen, Total, Inorganic
Nitrogen, Ammonia, HR, TNT
Nitrogen, Ammonia, LR, TNT
Nitrogen, Ammonia
Nitrogen, Ammonia (USEPA)
Nitrogen, Monochloramine and Free Ammonia
Nitrogen, Monochloramine and Free Ammonia (AccuVac)
Nitrogen, Nitrate, MR
Nitrogen, Nitrate, HR
Nitrogen, Nitrate, HR (AccuVac)
Nitrogen, Nitrate HR TNT
Nitrogen, Nitrate, LR
Nitrogen, Nitrate, MR (AccuVac)
Nitrogen, Total TNT
Nitrogen, Total HR TNT
Nitrogen, Nitrite TNT
Nitrogen, Nitrite, LR RL
Nitrogen, Nitrite, LR (USEPA)
Nitrogen, Nitrite, LR (AccuVac) (USEPA)
Nitrogen, Nitrite, HR
Nitrogen, Total Kjeldahl
Organic Carbon, Total, Low-Range
Organic Carbon, Total, High-Range
Organic Matter
Oxygen, Dissolved, HR (AccuVac)
Oxygen, Dissolved, SHR (AccuVac)
Oxygen, Dissolved, LR (AccuVac)
Oxygen Scavengers - Carbohydrazide
Oxygen Scavengers - DEHA
Oxygen Scavengers - Hydroquinone
Oxygen Scavengers - Iso-Asorbic (Erythorbic) Acid
Oxygen Scavengers - Methyleneketoxime
Ozone, LR (AccuVac)
Ozone, MR (AccuVac)
Ozone, HR (AccuVac)
Palladium
PCBs (in soil)
Phenols (USEPA)
Phosphonates
Phosphorus, Reactive (AccuVac)
Phosphorus, Reactive
Phosphorus, Reactive TNT
Phosphorus, Acid Hydrolyzable, TNT
Phosphorus, Reactive, HR RL
Phosphorus, Reactive, LR RL
Phosphorus, Reactive (USEPA)
Phosphorus, Total TNT
Phosphorus, Reactive (AccuVac) (USEPA)
Polyacrylic Acid
Potassium
Quaternary Ammonium Compounds
Selenium
Silica, ULR
Silica, ULR RL
Silica, LR
Silica, HR
Silver
Sodium Chromate

Sulfate (USEPA)
Sulfate (AccuVac) (USEPA)
Sulfide (USEPA)
Surfactants, Anionic
Suspended Solids
Tannin & Lignin
Tolytriazole
ToxTrak Toxicity
TPH (in soil)
TPH (in water)
Trihalomethanes
Turbidity
Volatile Acid
Zinc (USEPA)

99 Miller Avenue

Braddock, PA 15104

800-393-4009

Fax 412-271-5083

info@
fieldenvironmental.com

Visit us soon on the web
www.
fieldenvironmental.com

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