

# Water Testing

## Portable Laboratories, Hach DREL/1900

Complete systems with reagents and apparatus for 24 common water quality tests, incorporating the DR1900 spectrophotometer.

- ◆ Choice of 2 systems:
  - Complete
  - Industrial

The systems comprise:

- ◆ DR1900 Spectrophotometer operating from 100-240V 50/60Hz mains supplies or from Lithium iron rechargeable batteries (included)
- ◆ Procedures and Instrument Manual
- ◆ Digital Titrator
- ◆ Reagents and apparatus for tests as indicated

### Spectrophotometer DR1900 specifications

Wavelength range	nm	340 to 800 x 1
Wavelength accuracy	nm	±2
Bandwidth	nm	5
Photometric measuring range	Abs.	0 to 3
Photometric accuracy	Abs.	±0.003
Readout modes		Absorbance, Transmittance, Concentration
Wavelength selection		Automatic, based on method selected
Photometric calibration		Automatic at start up
Data storage		Up to 500 measurements, more than 220 pre-programmed Hach or user method protocols
Interface		Micro USB
Cell holder		10mm, 13mm, 1 inch diameter, 10mm or 1 inch rectangular cells
Light source		Long-life Xenon flash
Overall H x W x D	mm	98 x 178 x 267
Weight	kg	1.5

### Portable Laboratories, DREL/1900

Comprising instruments, apparatus, reagents and instructions for the common water quality tests as specified. Supplied in two robust carrying cases, each 530 x 290 x 280mm with manuals, vial adapters and 4 x 1.5V rechargeable batteries giving up to 15 days field operation (less if the display backlight function is switched on) with charger for 100-240V 50/60Hz a.c. supplies. Combined weight 30kg.

**WR840-37** DREL/1900 Complete

**WR840-47** DREL/1900 Industrial

### Accessory

**WR796-10** Power/download module. With USB connection and cable. For 110-230V 50/60Hz supplies.

### Turbidimeters, Hach 2100QIS and 2100Q

Choice of models for either ISO7027 (2100QIS) or USEPA Method 180.1 (2100Q) design compliance. Provide turbidity measurement in the range 0 to 1000NTU. Supplied with primary calibration standards (20, 100, 800NTU), 10NTU primary verification standard, 6 sample cells, instrument manual, silicone oil and cloth, 4 x 1.5V alkaline batteries and carrying case.

- for full details, see WR795-series.

Tests included:	Portable Laboratory	
	Complete	Industrial
Acidity	x	—
Alkalinity, (CaCO <sub>3</sub> )	x	x
Ammonia (Nitrogen)	x	x
Bromine	x	x
Calcium	x	x
Chloride	x	x
Chlorine, free	x	x
Chlorine, total	x	x
Chromium	x	x
Colour	x	x
Copper	x	x
Hardness, (CaCO <sub>3</sub> )	x	x
Iodide	x	x
Iron, Total	x	x
Manganese	x	x
Molybdate	—	x
Nitrate, (N)	x	x
Nitrite, (N)	x	x
Oxygen, binders	—	x
pH	x	x
Phosphate	x	x
Silica	x	x
Sulphate	x	x
Sulphide	x	—
Sulphite	x	x
Suspended solids	x	x

Portable conductivity and pH meters – see *Conductivity and pH sections*.



**Inset: DR1900 in use**



**WR840-37/WR840-47 with accessory turbidimeter and pH meter**



**WR795**