ACCURATE MEASUREMENT

HACH®
Be Right™

Designed by Water Experts, for Water Experts

Be confident with Hach - the leader in water analysis for over 60 years

Hach instruments and chemistries are designed to work together to provide the most accurate results

DR 5000™
Advanced
UV measurement and research applications

DR 3800™
All-Purpose
VIS Benchtop
Expanded feature set

DR 2800™
Most Popular Portable
Lab and field measurement

DR 2700™
Most Economical
Basic measurement

Features	DR 5000	DR 3800	DR 2800	DR 2700
UV spectrum analysis	•			
High speed wavelength scanning for quality control and method development	•	•		
Optional Sipper Module for high throughput analysis	•			
On-screen help guide		•		
Colour touch screen		•		
Automatic method recognition with TNT plus	•	•	•	
Time-course measurement	•	•	•	
Easy USB data transfer to common PC application	•	•	•	•
Portable for field use with optional battery			•	•
Programmable custom methods	50	50	50	10
Automatically stored test data points	1000	1000	500	200

Key Specifications	DR 5000	DR 3800	DR 2800	DR 2700
Wavelength accuracy	±1.0mm	±1.5mm	±1.5mm	±1.5mm
Bandwidth	2nm	5nm	5nm	5nm

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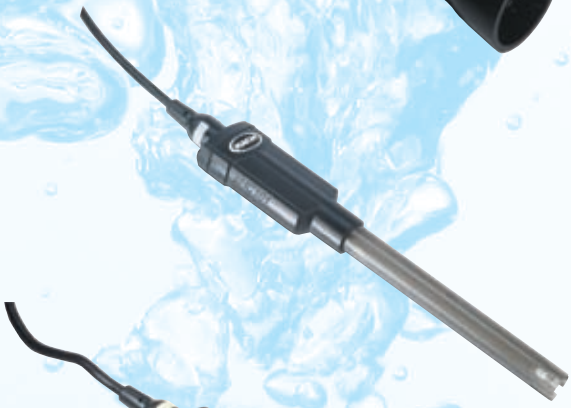
Hach HQd Meters

HQd meters and fully interchangeable probes
The smart choice for multi-parameter lab and field measurement.

Hach gives portable measurement flexibility and ease of operation with its HQd meter and full suite of interchangeable IntelliCAL™ lab and field probes, including 12 probe types in 6 different parameters.

- pH including ***NEW!*** pH ultra for rapid measurement of all samples, including difficult low-ionic strength waters
- ***NEW!*** ORP (Oxidation Reduction Potential)
- ***NEW!*** Sodium Ion Selective Electrode (ISE)
- Conductivity
- DO with patented Hach LDO® (Luminescent Dissolved Oxygen) technology
- BOD measurement utilizing patented Hach LDO technology



When switching between parameters on the HQd meter, the operator simply plugs the probe into the meter. The system does the rest, automatically recognizing the testing parameter and recalling the calibration history, which unlike competitor models, is stored in the probe. Operating the HQd requires little to no training due to its intuitive menu structure and guided measurement and calibration methods.

HQ40d Meter with IntelliCAL LBOD101
Luminescent Dissolved Oxygen Probe (LDO) for BOD Measurement

Pocket Colorimeter II:

Any test from Alachlor to Zinc!!

Chlorine (Free & Total), Pocket Colorimeter II Test Kit

- Pocket Colorimeter II Analysis System for Free Chlorine and Total Chlorine
- Two Ranges: LR - 0.02 to 2.00 mg/L and HR - 0.1 to 8.0 mg/L as Cl_2
- Reagents included: (100 tests each, low range, or 50 tests each, high range)
- Complete with manual, sample cells and carrying case
- USEPA approved/accepted for drinking water and wastewater

5 in 1 Water Quality Test Strips, 50 tests

5 in 1 test strips are great for quick, on-site evaluations of water quality with reliable results on every test. These mulit-parameter test strips test for five water quality measurements on 1 strip:

- Free Chlorine (0-10 mg/L)
- Total Chlorine (0-10 mg/L)
- Total Hardness (as $CaCO_3$, 0-25 gpg and 0-425 mg/L)
- Total Alkalinity (as $CaCO_3$, 0-240 mg/L)
- pH (6.2 - 8.4)

2100Q Portable Turbidimeter

The industry's best portable turbidimeter just got better!

Meets EPA Method 180.1

- Single-standard RapidCal™ calibration offers the simplest solution for low-level measurements.
- Single-step verification and on-screen assisted calibration eliminates the need to reference complicated manuals.
- Optional USB+Power Module (LZV813) enables simple data transfer. All data is easily downloaded to any computer, providing superior data integrity and availability.
- Exclusive algorithm in the Rapidly Settling Turbidity™ mode provides accurate, repeatable measurements for rapidly settling, difficult-to-measure samples while eliminating the need for redundant measurements and estimating.

Hach portable turbidimeters are supplied with four AA alkaline batteries, a carrying case with insert, StablCal primary calibration standards in 1" sealed vials (20, 100, 800 NTU), a 10 NTU primary verification standard, 6 sample cells with screw-tops, instrument manual (printed and on CD-ROM), quick start guide, silicone oil and oiling cloth.

sc1000 Display Module

Multi-Parameter Universal Controller for all Hach Digital Sensors

The Hach sc1000 Multi-parameter Universal Controller is a fully modular system consisting of a Display Module and one or more Probe Modules. The Display Module and Probe Module must be ordered separately.

- Full featured controller with large color touch-screen display
- Can accept up to 8 digital sensors (stand alone) or expanded to a 15 sensor network
- "Plug and play" operation
- Mix and match; compatible to all Hach digital sensors and analyzers
- Flexible communication options - Modbus and Profibus DP
- Digital reliability and integration
- Expandable and upgradeable at any time

sc100 Universal Controller, Standard

The most popular Hach Controller: Plug and Play!

One Controller for all Hach digital sensors

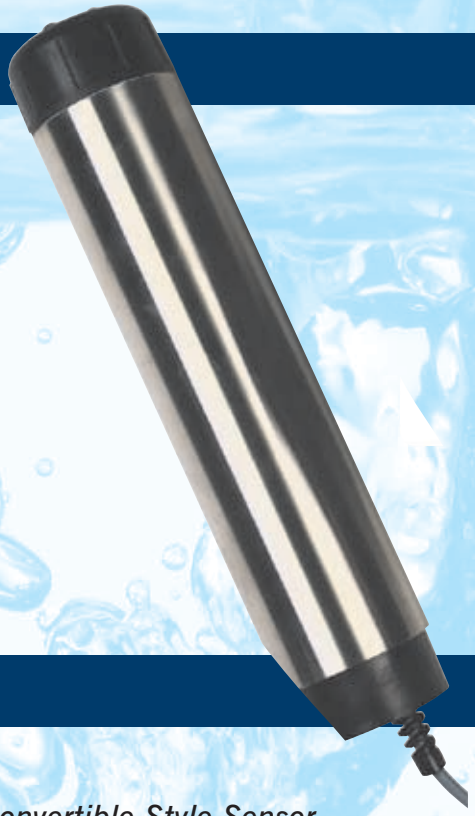
- One Controller for One or Two Sensors
- One controller for One or Two Parameters
- One controller for Many Options
- "Plug and Play" Operation
- Simple, Reliable Data Collection

The Model sc100 Controller receives data from one or two sensors. Its plug-and-play, mix-and-match operation lets it fit into any facility or workflow. Digital communication with any Hach digital sensor or probe is simple and reliable.

sc100 is also available with RS485/MODBUS® Communications (LXV401.52.02002) or RS232/ MODBUS® Communications (LXV401.52.01002).

For other communication options which may be available, contact Hach Technical Support or your Hach representative.

Advanced HACH LDO®



Process Dissolved Oxygen Probe

- No calibration for one year
- Reduced cleaning frequency and simple maintenance
- 99% accuracy
- No electrolyte solutions to poison or replenish
- No membranes
- Three year probe warranty
- One year sensor warranty
- For use with sc100/sc1000 Controller

GLI Differential and Combination Sensors

GLI pHD sc Differential pH Digital Sensor, Wide Range, PEEK, Convertible Style Sensor

- pHD sc,
- Differential pH Digital Sensor,
- PEEK Body Material,
- Convertible Body Style,
- General Purpose Glass Electrode,
- 70 °C (158 °F)Maximum Temperature:

All Digital sensors include built-in digital electronics and integral 10 m (32 ft) cable terminated with connector for the sc100 digital controller.

Encapsulated Differential pH Sensors

Combination pH Sensors

SOLITAX® sc Suspended Solids and Turbidity Analyzer

For Immersion in Open Tanks

SOLITAX sc Suspended Solids and Turbidity Analyzer includes Solids and Turbidity Sensor for Immersion in Open Tanks Applications

- Includes a sc200 controller and stainless steel ts-line sc Solids and Turbidity Sensor (0.001 mg/L to 50 g/L, 0.001 to 4000 NTU) with wiper
- Measures turbidity or turbidity and suspended solids in drinking water, wastewater, and industrial process applications
- Accurate, colour-independent measurements
- Self-cleaning device prevents erroneous values
- Easy one-point calibration
- Any two SOLITAX sc sensors can be installed using one Hach sc200 Controller

NOTE: Power cords must be ordered separately. Fixed point installation kit or handrail mount kit must be ordered separately for all analyzers for immersion in open tanks (includes PN 2983400, 2983500, 2983600

1720E Low Range Process Turbidimeter

The Most Popular Turbidity Meter for Drinking Water

1720E Low Range Process Turbidimeter (Turbidity) and sc100 Controller

1720E Low Range Turbidimeter top features:

- Meets and exceeds USEPA Method 180.1 for measuring turbidity for drinking water compliance
- One controller accepts up to two plug and play sensors giving you two complete turbidimeters
- Sensitive to fine changes in low level turbidity with a built-in bubble removal system
- Built-in datalogger stores up to 6 months of data
- Versatile digital output-MODBUS protocol, LonWorks or wireless IR port
- Two year warranty

TSS HT sc TriClamp, Suspended Solids TriClamp Inline Sensor

High Temperature Turbidity Sensor for Hot Water Applications!!!

- Measures online suspended solids in high temperature industrial process and wastewater applications
- Withstands operating temperatures of 90ºC and pressures up to 10 Bar
- TriClamp provides simple inline installation and quick access for maintenance
- Constructed of polished stainless steel and specially coated optics and electrical systems to withstand harsh environments and keep particles from sticking to the probe
- Measurement window is built of scratch resistand sapphire for easy cleaning
- Measures both online Suspended Solids and Turbidity in one instrument
- Includes bubble and temperature compensation software for a more accurate measurement
- Connects directly to all Hach sc controllers for immediate use

ORBISPHERE O2 luminescent sensor + 410 controller panel mount/cables

The ORBISPHERE oxygen (O_2) luminescent sensor with the ORBISPHERE 410 offer a new way of monitoring oxygen in high purity water.

- Ideal for beverage filling lines
- First luminescent sensor for process ppb level oxygen monitoring
- No chemicals, membranes or electrolyte (<5 minutes annual service)
- Fully automatic in-situ calibration

This on-line process analyser is designed for use in power generation plants running oxygenated treatment (OT), all volatile treatment (AVT) chemistry, or other industrial applications requiring effective oxygen monitoring, such as process water in the semiconductor industry.

CL17 Free O_2 Residual Chlorine Analyzer

- Provides unattended operation for up to 30 days
- Leverages Hach's proprietary DPD formulation that minimizes interferences due to water hardness or minerals
- EPA compliant according to 40 CFR140.74

Accurate Results

The Hach CL17 Chlorine Analyzer uses colorimetric DPD chemistry to monitor water continuously for free or total residual chlorine which is the same method (Standard Method 4500-Cl G) as used for grab samples. This analysis method is not affected by changes in sample pH, temperature, chlorine concentration (within the measurement range), pressure or flow, thus offering more accuracy than other methods in the market today.

Simple, Prdictable Maintenance

Monthly routine maintenance for the CL17 can be performed in 15 minutes and includes changing reagents and cleaning the colorimetric cell. No special tools are required. Under typical use, the CL17 will operate unattended for 30 days.

Re-Calibration Not Necessary

Calibration of the CL17 with a chlorine standard or against a reference analysis is possible; however, it is neither necessary nor recommended due to its factory-established embedded calibration curve.

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