

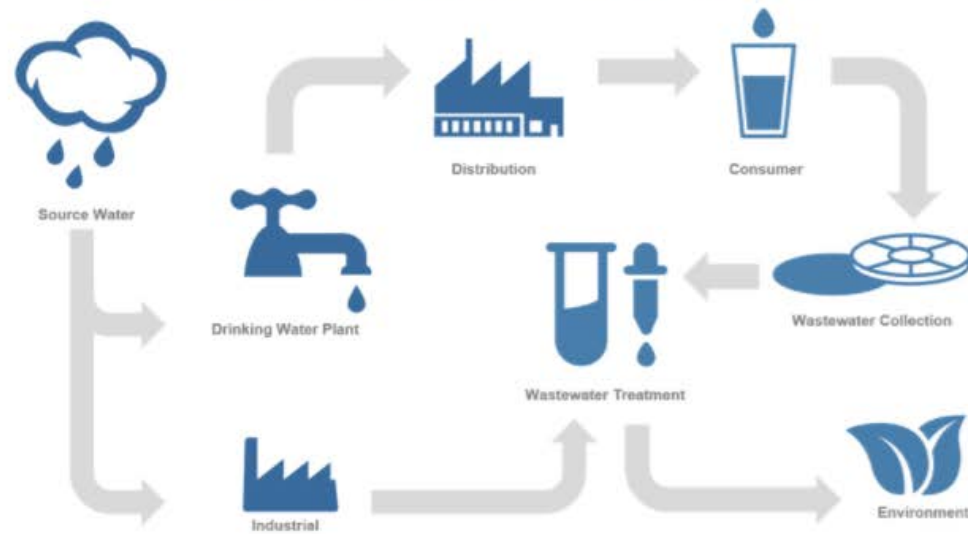


HACH OVERVIEW

Don Whiting

WATER PLATFORM

The Complete Water Cycle Solution



COMPANY

HACH	Water Quality Testing	+
TROJAN TECHNOLOGIES See other brands	Water Disinfection UV	+
OTT HYDROMET See other brands	Water Flow-Quality-Level	+
MCCROMETER	Water Flow	+
CHEMTREAT See other brands	Water Treatment	+
PALL WATER	Water Filtration	+
SEA-BIRD SCIENTIFIC	Water Quality Testing	+

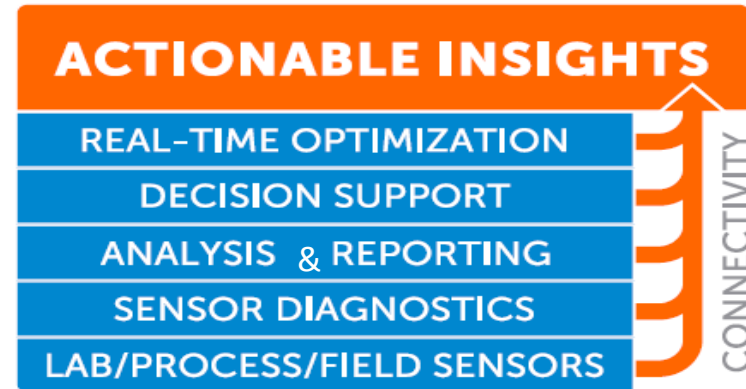
Danaher
Corporation
Conglomerate company



THE ISSUES WE ALL ARE DEALING WITH

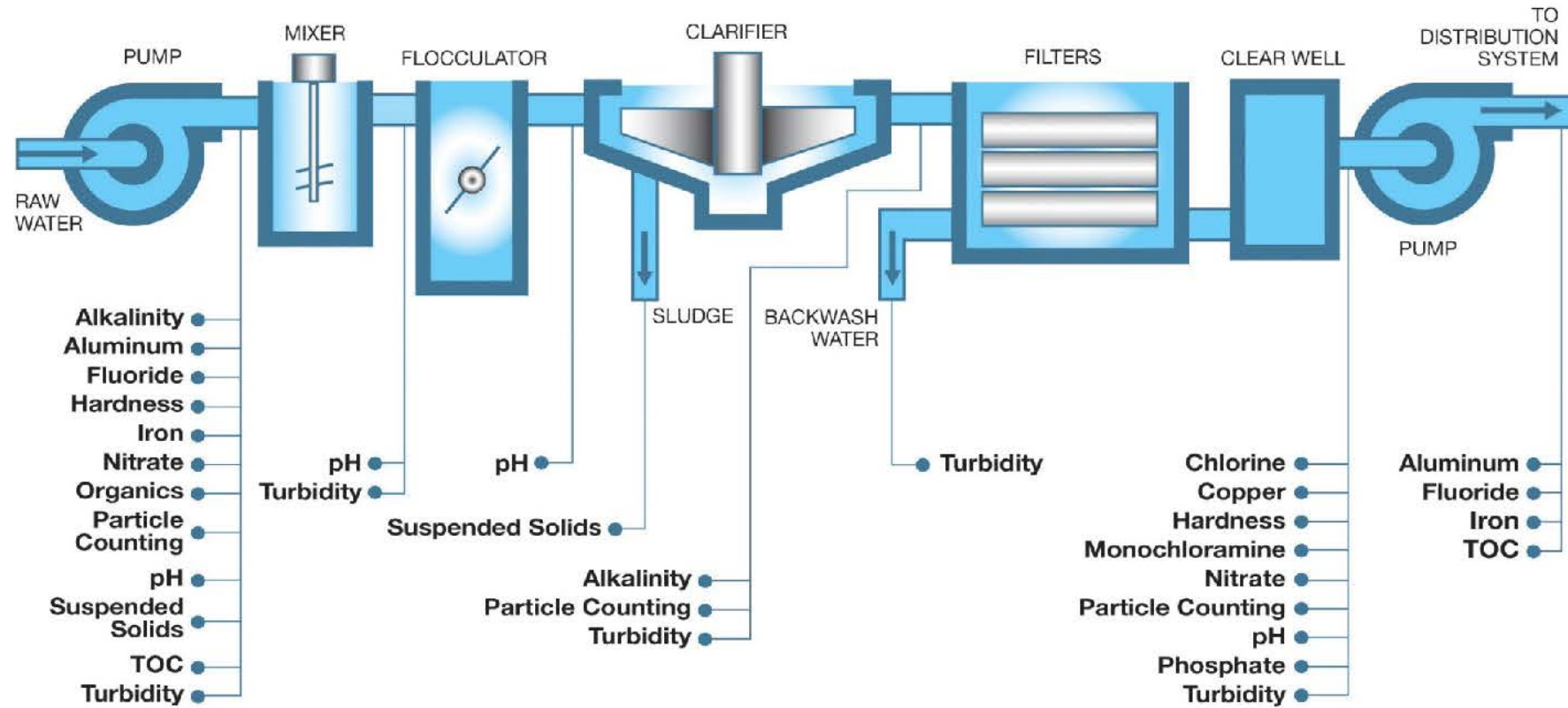
- Economy & Budget Pressures
- Workforce – Aging and Recruitment & Retention – Workforce of the Future
- New or Changing Regulations
- Continuous Protection of Public Health & the Water Environment
- Protecting the Organization's Public Image.

HACH – A WATER SOLUTIONS COMPANY

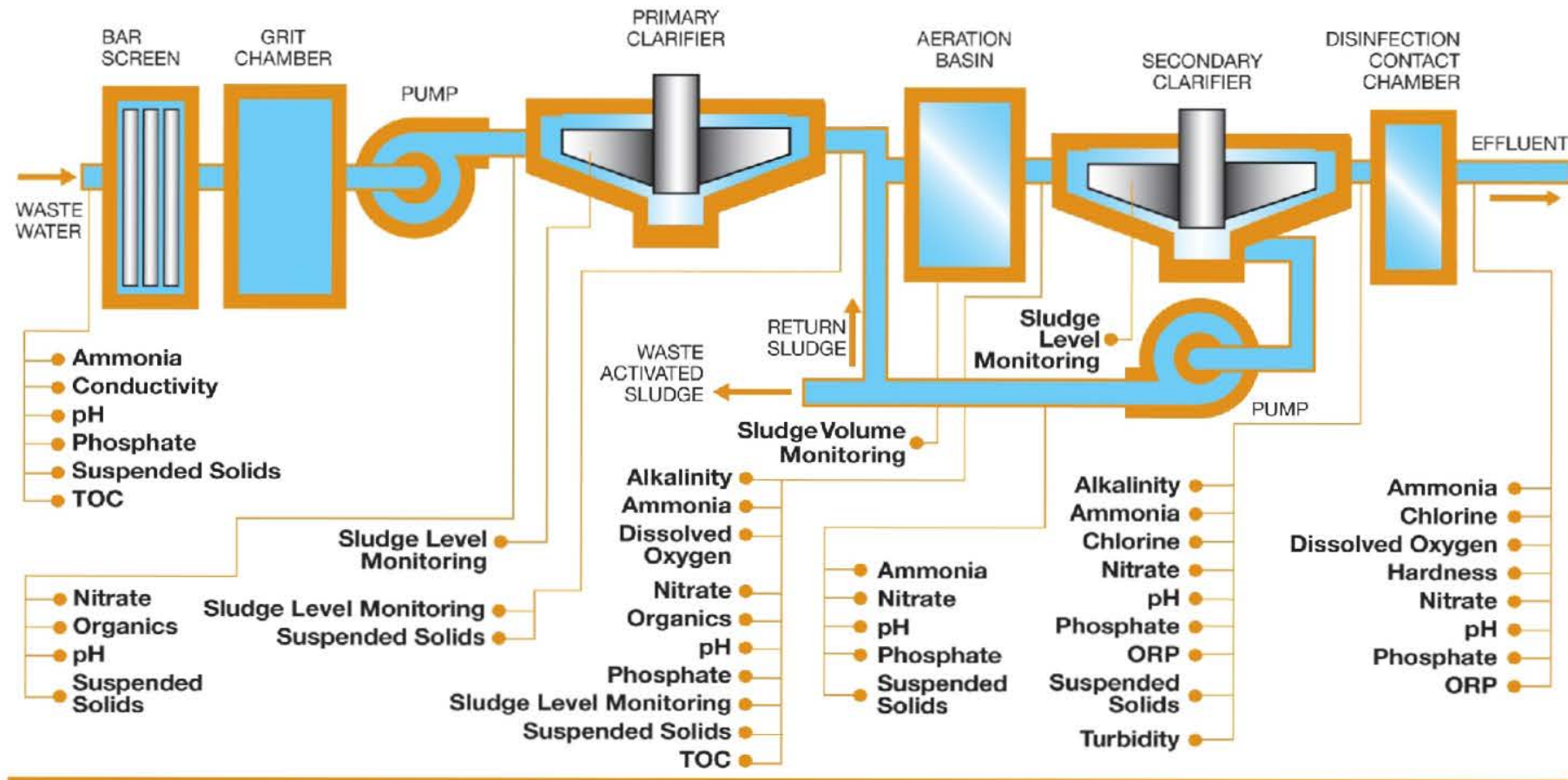


CLAROS Water Intelligence System

Drinking Water Treatment Flow Diagram



Waste Water Treatment Flow Diagram



LABORATORY AND FIELD PRODUCTS

Complete solutions designed to meet your accuracy and analysis needs

- Chemistries
- Colorimeters
- eChem
- Microbiology
- Portable labs and test kits
- Prepared reagents
- Samplers
- Spectrophotometers
- Titrators
- TOC Analyzers
- Turbidimeters



Focus to manufacture instruments and chemistries that are designed specifically to work together.

LABORATORY PRODUCTS

PROCESS MANAGEMENT



**Assure confidence in chemical analysis results
with water analysis reagents from Hach.**



HQd™ DIGITAL METERS & IntelliCAL™ PROBES

Applications

- Drinking Water
- Wastewater
- Beverage
- Food
- Industrial Water
- Power
- Source Water



POCKET COLORIMETER™ II



Applications

- Drinking Water
- Wastewater
- Power
- Industrial Water
- Field Use
- Beverage
- Food QC Lab

DR 3900™ Spectrophotometer

Applications

- Beverage
- Drinking Water
- Wastewater
- Food QC Lab
- Power



DR 6000™ UV-VIS SPECTROPHOTOMETER

Applications

- Beverage
- Drinking Water
- Industrial Water
- Pharmaceutical
- Power
- Wastewater



TL23 SERIES BENCHTOP TURBIDIMETER

Applications

- Food and Beverage
- Pharmaceutical
- Chemical
- Power
- Metal and Mining
- Agriculture
- Wastewater



TU5 SERIES TURBIDIMETERS

Applications

- Drinking Water
- Power
- Beverage
- Pharmaceutical

LASER



SL1000 PORTABLE PARALLEL ANALYZER (PPA)

Applications

- Clean Water Applications
- Boiler Water



TitraLab® AT1000 SERIES AUTOMATIC TITRATORS

Applications

- Drinking Water
- Wastewater
- Food and Beverage
- Petrochemical Industry



QBD1200 LABORATORY TOTAL ORGANIC CARBON ANALYZER

Applications

- Drinking Water
- Semiconductor
- Power
- Clear Samples TOC <100 ppm



MICROBIOLOGICAL TESTING IN MINUTES FOR INDUSTRIAL WATER SYSTEMS

How clean is the water in your process?
Why wait for days when you can get the
right answer, right now!

Traditional culture-based microbial testing must be done in a lab, take days to produce results, and are incapable of providing a true measure of total microbial activity. By the time that problems are revealed, the situation could have become worse or spread to other areas.

Recent advances in rapid microbial testing now provides a viable alternative. LuminUltra's microbial monitoring solutions, now available from Hach, let you take the lab into the field! Through simple and practical test protocols, anyone can now conduct microbiological tests wherever they are needed with results available in minutes rather than days.

How does it work?

These simple test protocols quantify the amount of ATP (Adenosine Triphosphate) in a sample. Since all cells need ATP to live, it is directly tied to the total microbial population. Optimized test protocols and robust chemistries enable these assays to apply to any liquid sample as well as sessile build-ups. Best of all, results are available within minutes of sample collection!



PEEL PLATE HETEROTROPHIC PLATE COUNT MEDIA

Applications

- Drinking Water
- Cooling Water
- Food and Beverage

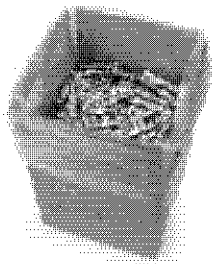


Hach® Peel Plate test lets you test HPC with no media preparation.

Chemkey Recycling Program

Overview

Details



Product #:

8610500

USD Price:

\$72.20

Ships within 1 week

Quantity

1

▲

▼

Add to Cart



Add to Quote

Environmentally Friendly

Used Chemkeys will be recycled, with little impact on the environment

Stress-Free

Container is delivered with pre-paid return shipping labels for easy disposal when full

▼ What's in the box?

1 cardboard box with a 950 Chemkey capacity for recycling

▼ Specifications

Quantity:

950 Chemkey capacity

Order eZ COD™ Recycling online:
www.hach.com Or call: 1-800-227-4224



Scheduled Inventory Reagent Replacement (SIRR)

Have you ever been caught without the reagents you need? Do you want to simply receive your lab products when you need them? The Hach Scheduled Inventory Reagent Replacement (SIRR) program allows you to set up a recurring order with your lab reagents and supplies so you always have what you need.

Benefits of the SIRR program include:

Reduced inventory and fresh reagents –

Scheduled shipments means you don't have extra inventory sitting on your shelves while also reducing the possibility of reagents expiring before you can use them.





A Better Way to Keep your Supplies in Stock

Pick&Ship™ is a subscription program from Hach for supplies, like reagents, maintenance kits, and other items you need on a recurring basis.

FIELD PRODUCTS

PROCESS MANAGEMENT

5500sc AMMONIA MONOCHLORAMINE ANALYZER

Applications

- Drinking Water



The TU5 Series Turbidimeter



The TU5 Series Turbibimeter built so you can be sure that a change in your turbidity reading is a change in your water.

Groundbreaking 360° x 90° Detection™ Technology
Matching lab and online results
Everything about turbidity – faster
No Surprises

AN-ISE sc: Combination Sensor for Ammonium and Nitrate (with RFID* technology)

Applications

- Wastewater



AMTAX^{sc} ONLINE AMMONIA ANALYZER



Applications

- Wastewater
- Drinking Water



Filtrax™ Sample Filtration System

The Hach Filtrax Sample Filtration System provides high permeate quality with low operating costs. It is unnecessary to purchase and maintain additional pumps. Operation is automatic and self-cleaning is continuous. Depend on the Filtrax system to work reliably—even with a high sludge volume index or floating sludge.



Sample Conditioning

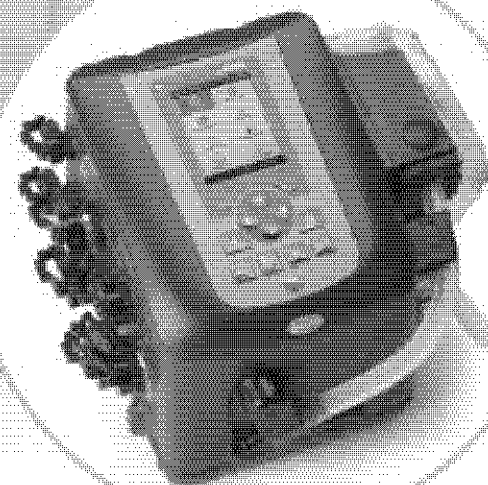
AS950 ALL-WEATHER REFRIGERATED SAMPLERS

**Sampling has never
been this easy.**

The AS950 All-Weather Refrigerated Sampler makes programming, data transfer and operation more intuitive and virtually error-free.

Applications

- Wastewater
- Collections
- Industrial Pretreatment
- Environmental Monitoring
- Stormwater



CA610 Fluoride Analyzer



Fluoride

CL17 CHLORINE ANALYZER



Applications

- Beverage
- Collection Systems
- Drinking Water
- Field Use
- Food QC Lab
- Pharmaceutical
- Power
- Semiconductor
- Wastewater

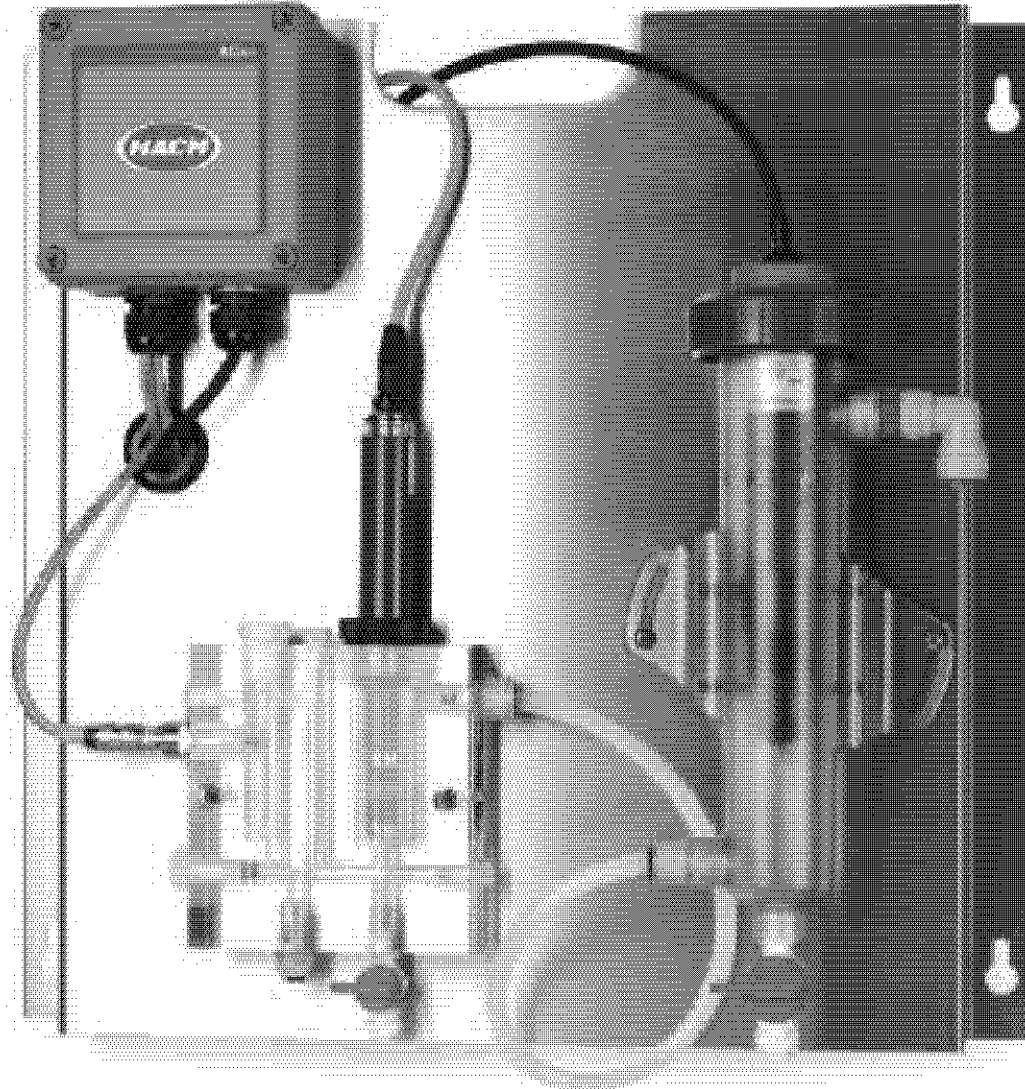
9184sc Free Chlorine Analyzer



CLF10 sc & CLT10 sc FREE & TOTAL REAGENTLESS CHLORINE ANALYZERS

Applications

- Drinking Water
- Wastewater
- Power
- Industrial Water

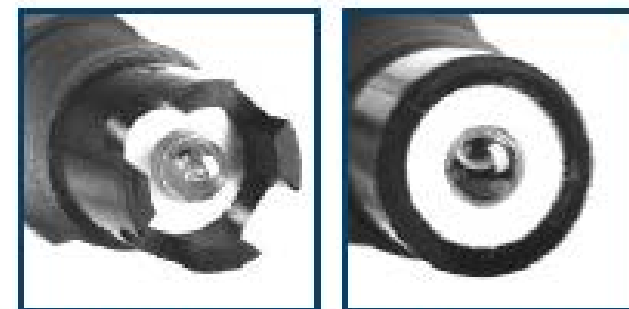


pH and ORP Sensors

3/4-inch Combination pH and ORP Sensor Kits



Use the Digital Gateway to make any Hach analog combination pH or ORP sensor compatible with the Hach sc1000 Controller.

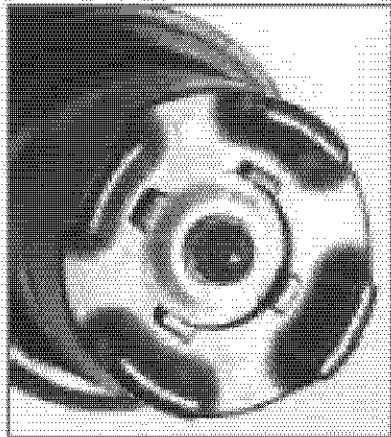


Digital combination pH and ORP sensors are available in convertible, insertion, and sanitary mounting styles. Choose from rugged dome electrodes or "easy-to-clean" flat glass electrodes.

DIFFERENTIAL pH AND ORP SENSORS

Applications

- Drinking Water
- Wastewater
- Industrial Water
- Power



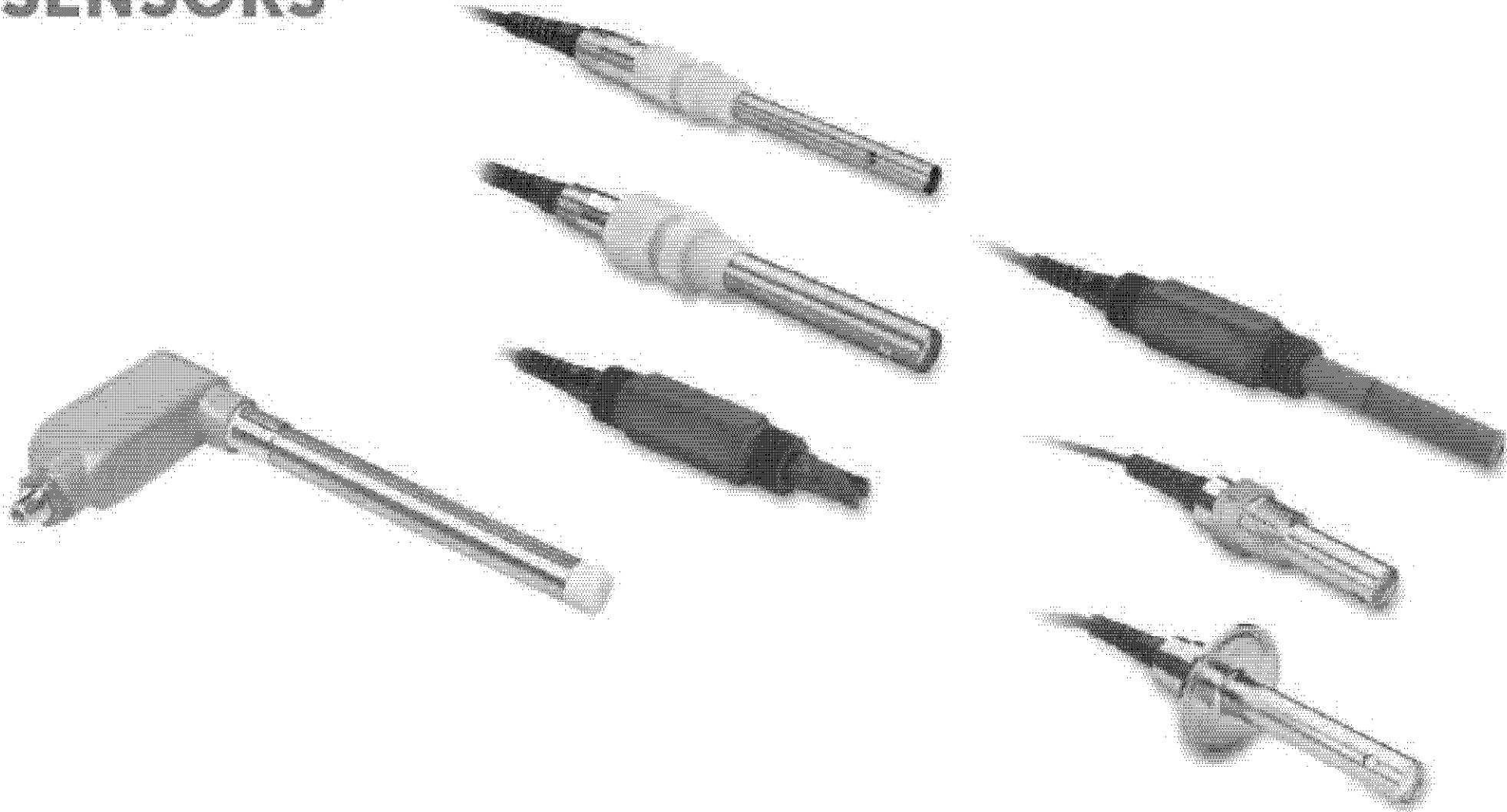
Wide range pH glass
(HF resistant glass also available)



CONTACTING CONDUCTIVITY/RESISTIVITY SENSORS

Applications

- Drinking Water
- Power
- Industrial Water



Inductive Conductivity Sensors



The innovative technology of Hach's Inductive Conductivity Sensors eliminates polarization and electrode coating problems in harsh environments. Available in sanitary (CIP) flange style and convertible styles in PFA, polypropylene, PEEK[®], and PVDF.

Nitratax



Nitrate

DW

WW

Sophisticated, yet simple, technology means the Hach NITRATAx sc UV Nitrate Sensors require little maintenance and offers remarkably low cost of operation.

Phosphate



The Hach PHOSPHAX sc Phosphate Analyzer measures $\text{PO}_4\text{-P}$ concentrations as low as 0.05 mg/L and as high as 50 mg/L. And operation costs are low because it uses 50% less chemicals. This is no “black box” system—you get transparent, high-quality measurements for reliable values.

UVAS PLUS sc SENSOR

Applications

- Drinking Water
- Wastewater
- Industrial

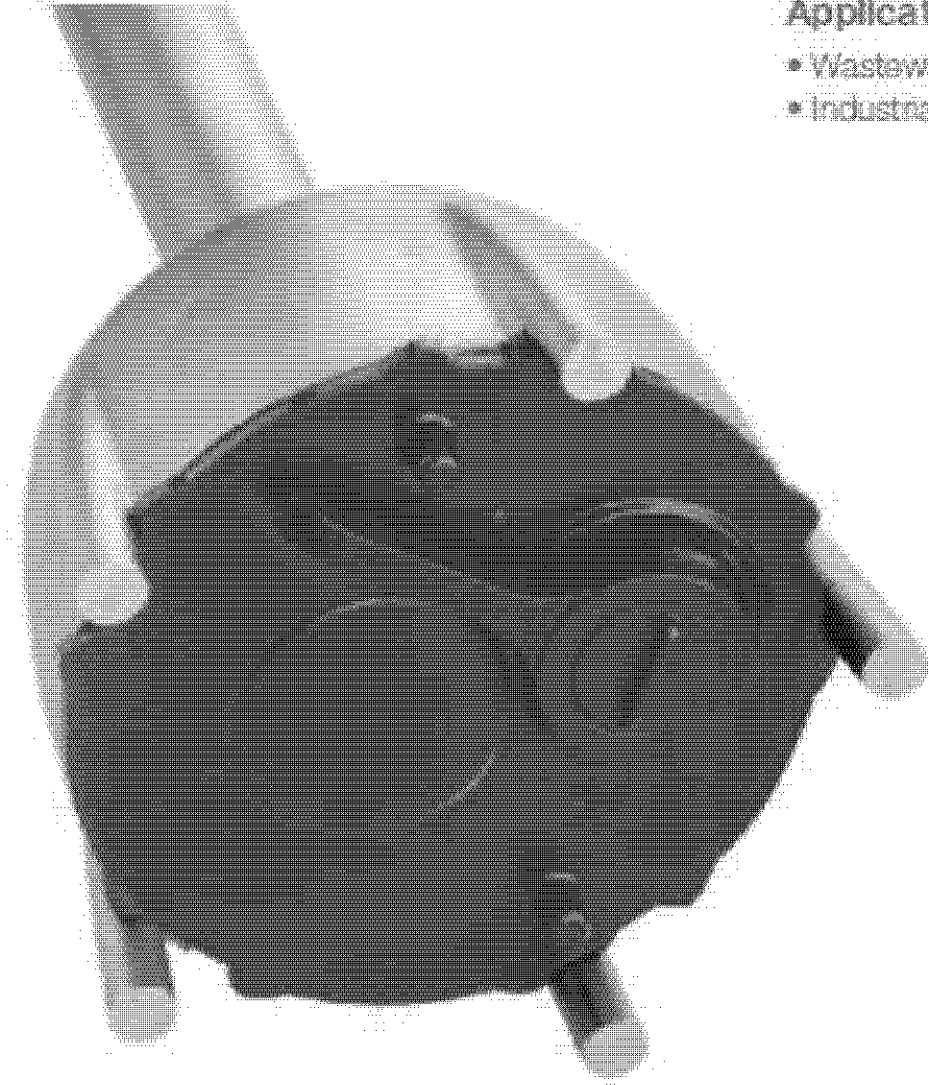


Continuously protect plant treatment processes from high influent organic loads.

SONATAX sc SLUDGE BLANKET LEVEL PROBE

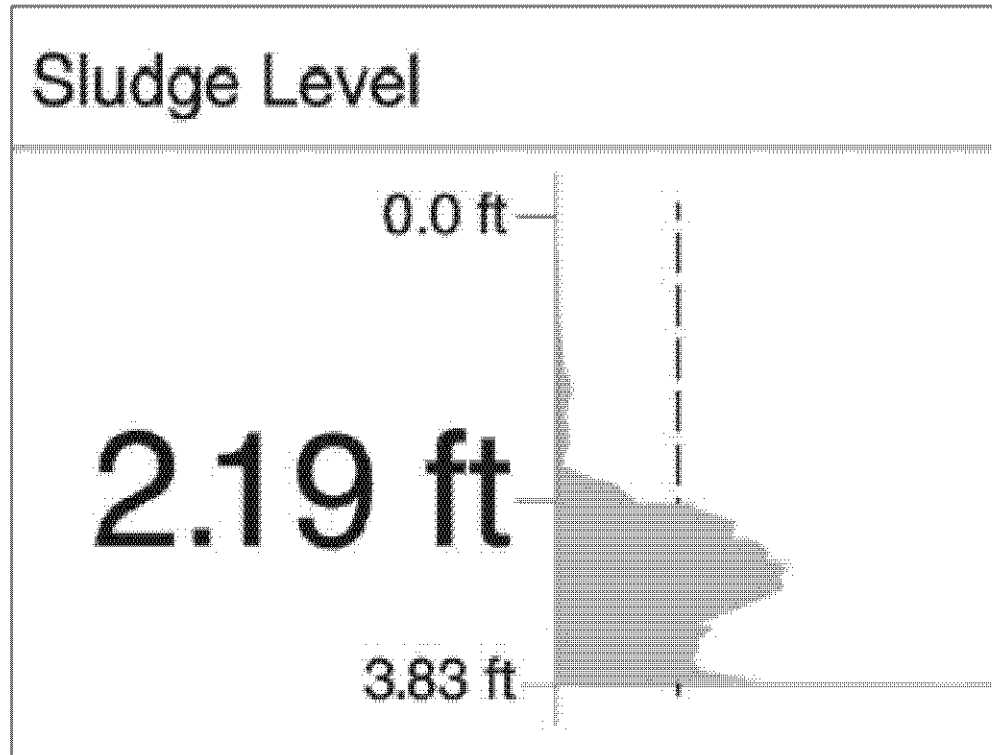
Applications

- Wastewater
- Industrial Water

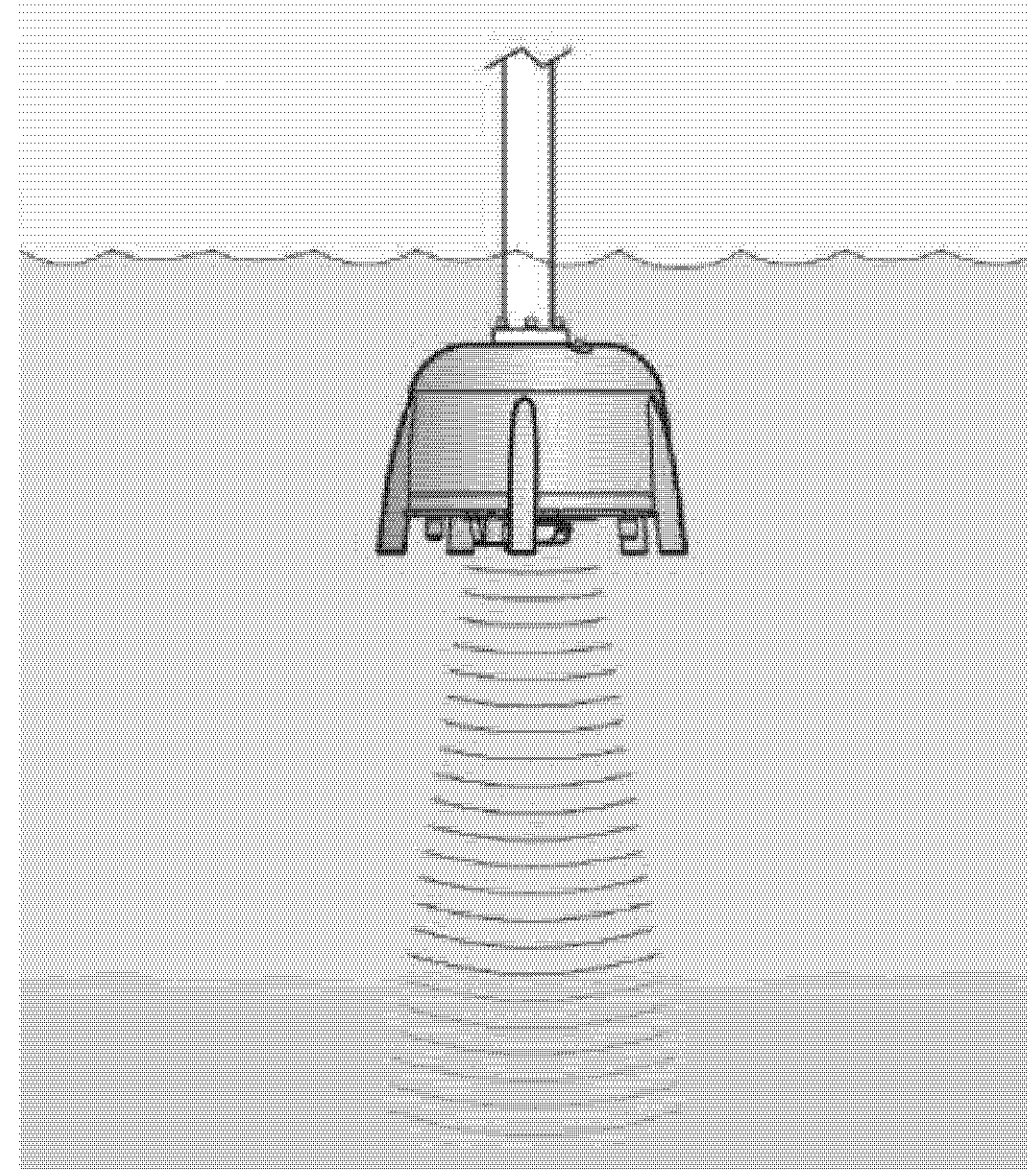


Principle of Operation

The Hach SONATAX sc Sludge Level Probe uses an ultrasonic pulse to accurately measure the sludge level. An ultrasonic signal sent from the probe is directed towards the sludge blanket in the tank (figure at right). Height and depth measurements are based on the time it takes for the ultrasonic echo to return to the probe and are displayed on the controller (figure below).



NOTE: Graphical display of sludge profile is available only with the sc1000 controller.



1720E On Line Turbidimeter



Online Turbidimeter Surface Scatter 7sc



Turbidity and Suspended Solids

DW

WW

Use the Hach Surface Scatter 7 sc Turbidimeter to monitor high range turbidity with greater accuracy and reliability than ever before. The optics never touch the sample in the Hach Surface Scatter 7 Turbidimeter so it's virtually maintenance free.

TU5 SERIES TURBIDIMETERS

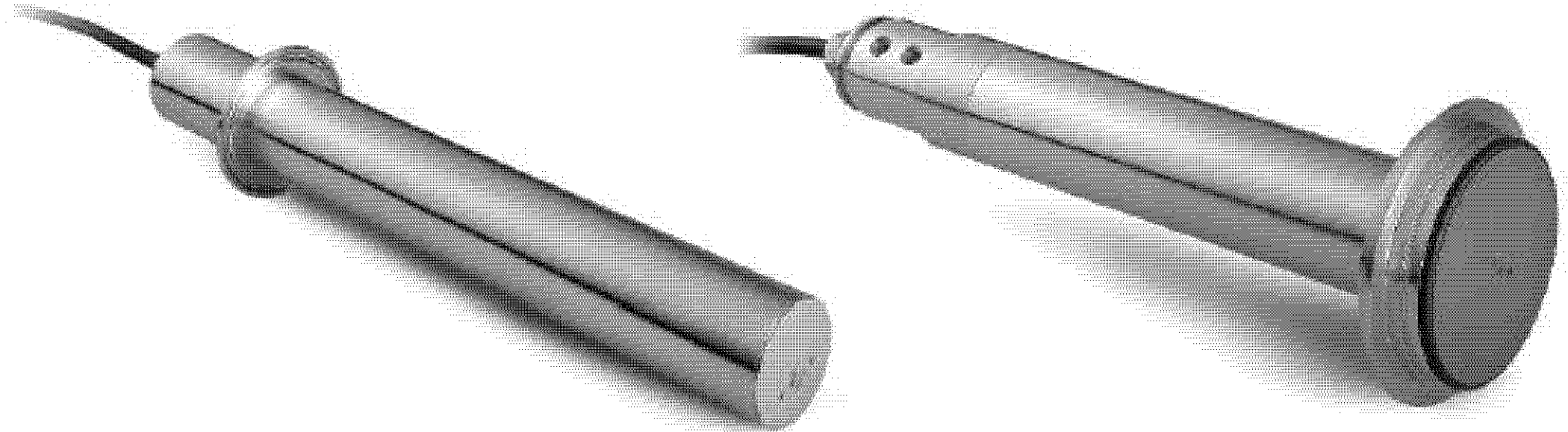
Applications

- Drinking Water
- Power
- Beverage
- Pharmaceutical

LASER



TSS sc Suspended Solids Family of Sensors



TSS sc probes measure online suspended solids from spring water to corrosive chemicals under the strictest regulatory conditions. With twelve different versions, it is possible to measure Suspended Solids over a wide range of concentrations with just one sensor.

SOLITAX[®]sc TURBIDITY & SUSPENDED SOLIDS SENSORS

Applications

- Drinking Water
- Wastewater
- Beverage
- Industrial Water
- Power



DISSOLVED OXYGEN: HACH LDO® PROBE, MODEL 2

Applications

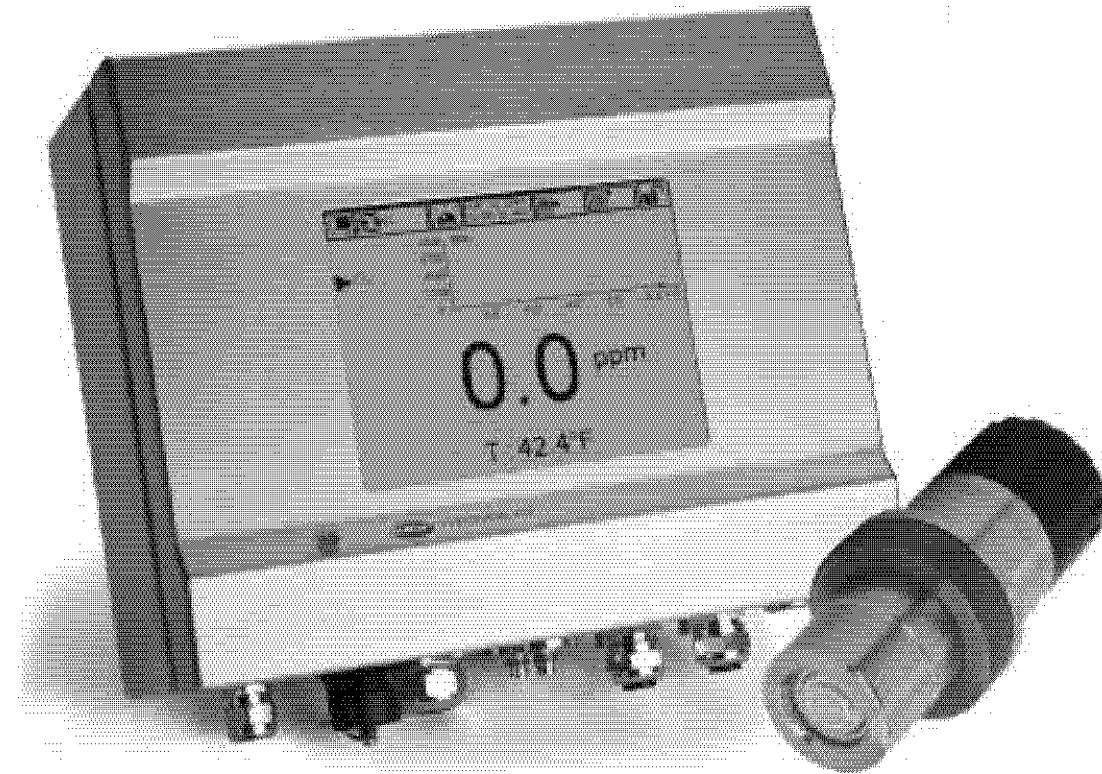
- Wastewater
- Industrial Water
- Drinking Water





9185sc Ozone Analyzer

Orbisphere C1100 Ozone Sensor



Applications

- Drinking Water
- Food and Beverage
- Pure Water Applications
- Environmental Monitoring

The Hach Orbisphere C1100 Ozone Sensor together with 410 Controller is the only inline sensor for ozone monitoring.

INDUSTRIAL BIOTECTOR SELECTION GUIDE

TOC Analyzer



	B7000i	B3500e	B3500c	B3500ul
Applications	- Industrial Wastewater Treatment Plant Influent and Effluent - Process Water - Product Loss Control - Oil in Water	- Industrial Wastewater Treatment Plant Effluent - Discharge Control - Storm/River Water - Ground/Raw Surface Water	- Condensate Return - Cooling Water - Boiler Feed Water - Demineralized Water - Reverse Osmosis Water - Carbon Bed Absorber	- Pharma - Power - Electronics - Ultrapure Water
TOC Range	0 - 100 up to 0 - 20,000 ppm	0 - 250 or 1,000 ppm	0 - 25 or 100 ppm	0 - 5 ppm
TOC Mode	TIC/TOC, TC, VOC *	TIC/TOC, TC	TIC/TOC, TC, VOC	TIC/TOC, TC, VOC
Two-Stage Advanced Oxidation	Yes	Yes	Yes	Yes
Self Cleaning	Reactor & Sample Tubing	Reactor & Sample Tubing	Reactor	Reactor
Sample Characteristic	<2 mm articles Dirty Fat, oil, greases, sludge and salts pH swings	<100 µm particles Semi-Dirty Some fat, oil, greases, sludge Some pH swings	<100 µm particles Clean Free of fat, oil, greases, stable pH	No particles Very Clean Free of fat, oil, greases, stable pH
Number of Streams	6	1	2	2

PANELS

PROCESS MANAGEMENT

WATER DISTRIBUTION MONITORING PANELS



- Specially configured for the WDMPS-SC or for your application
- Variety of I/O
 - 4 Digital inputs
 - 8 Analog outputs
 - 4 Alarm contacts
 - Analog and/or RS485 Modbus connections to recorders, PLCs, RTUs, SCADA systems

RAW WATER MONITORING PANELS



Includes:

- HR Turbidity
- pH
- Conductivity
- ORP
- Optional instrumentation
 - UV Organics Sensor
 - Nitrate Sensor
 - LDO Sensor
 - TOC Analyzer
 - Auto Sampler
 - Customizable

Source Water Monitoring Panel



Parameter	Product to Measure
Ammonium	NH4D Sensor
Conductivity	Conductivity Sensor
Dissolved Oxygen, Luminescent	LDO Sensor
Nitrate	NITRATA TM plus sc Sensor
Oil, Diesel	FP360 sc Sensor
ORP	ORP Sensor
Organics	UVAS sc Sensor
pH	pH Sensor, Ryton
Turbidity, High Range	SOLITAX TM t-line Sensor

Water Distribution Monitoring Panel



Hach scientists chose commonly tested parameters and robust instrumentation for the WDMP sc:

CHLORINE – Your Choice of Chlorine Analyzers

CL17 Chlorine Analyzer (Free Chlorine or Total Chlorine) –

Every 2.5 minutes, the instrument obtains and analyzes a sample using a DPD colorimetric, USEPA-approved method and provides either a free or total chlorine reading, depending on the instrument's configuration.

CLF10sc or CLT10sc Reagentless Chlorine Analyzer

(Free Chlorine or Total Chlorine) – Chlorine measurement with this amperometric analyzer does not require reagents, eliminating the need for routine reagent replacement and waste stream management.

TURBIDITY – 1720E Turbidimeter

Continuously flowing sample enters the turbidimeter body and flows through a bubble trap designed to vent any entrained air

bubbles from the sample stream. Turbidity is measured by directing a beam of light from the sensor assembly into the sample and measuring the scatter of light at 90 degrees with a photocell. The amount of light scattered is proportional to the amount of turbidity in the sample.

pH & CONDUCTIVITY Probes

A patented, differential pH sensor provides information on the acid/base nature of your water. A two-electrode conductivity sensor measures the total ionic concentration in the water.

TEMPERATURE

Temperature is measured to ensure the probes are measuring correctly and for other water quality information.

SAMPLE PRESSURE

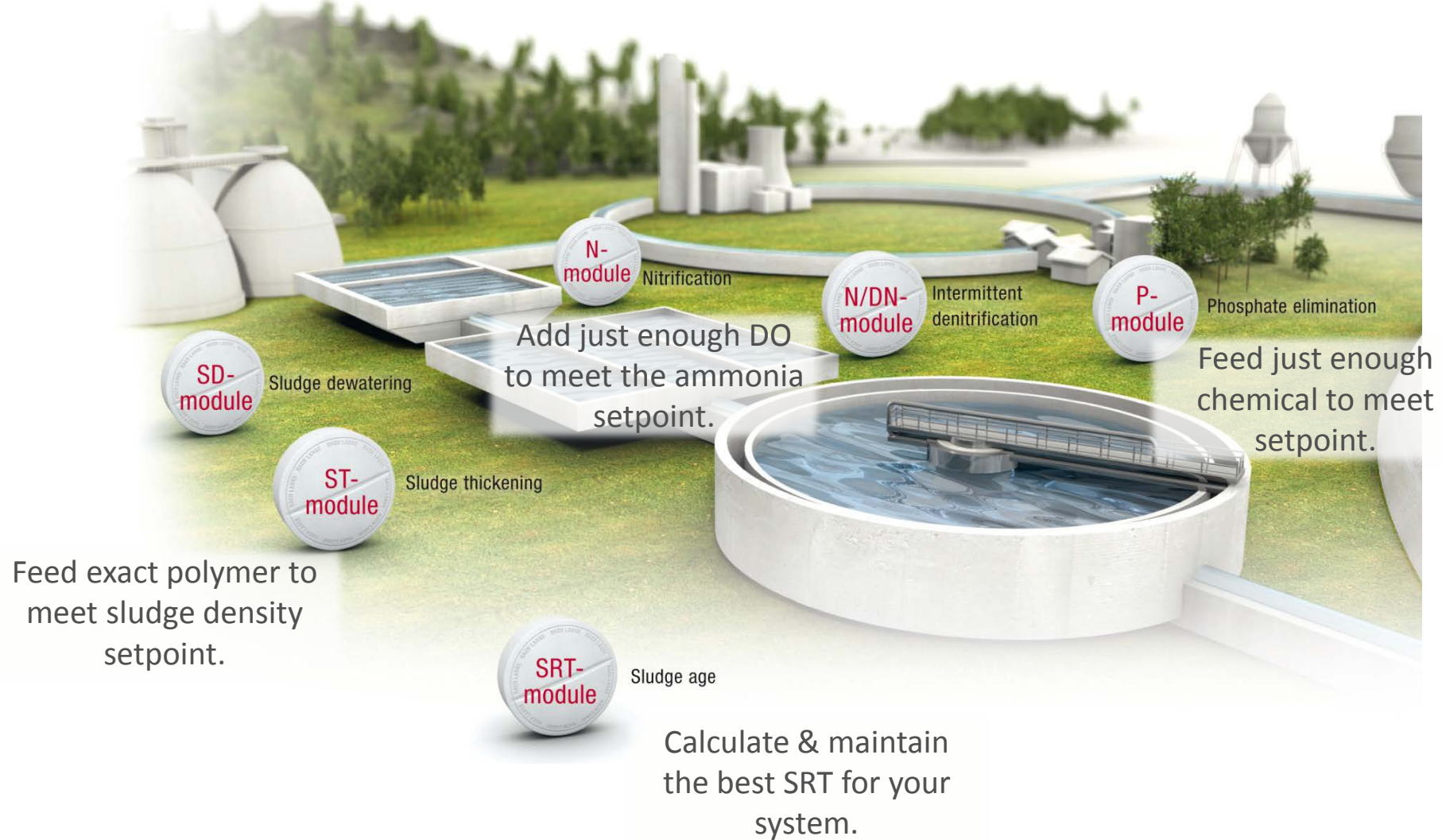
The sample pressure is measured to ensure the sample going to the panel is within the specified range.

ADD TO THE PANEL TO MAKE A COMPLETE WATER DISTRIBUTION MONITORING SYSTEM



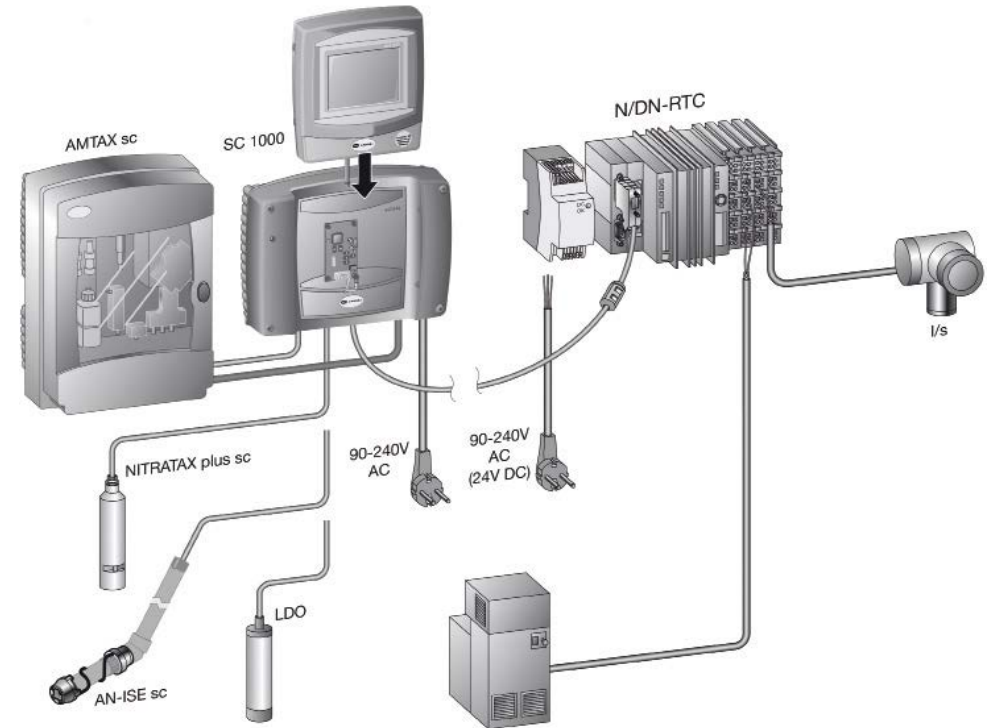
RTC - Real Time Control Process Management

RTC – REAL TIME CONTROL.



RTC – REAL TIME CONTROL.

- RTC101 - P Module
- RTC103 - N Module
- RTC105 - N/DN Module
- RTC112 - SD Module
- RTC113 - ST Module



CONTROLLERS

INSTRUMENT MANAGEMENT

sc200™ UNIVERSAL CONTROLLER

Applications

- Drinking Water
- Wastewater
- Industrial Water
- Power



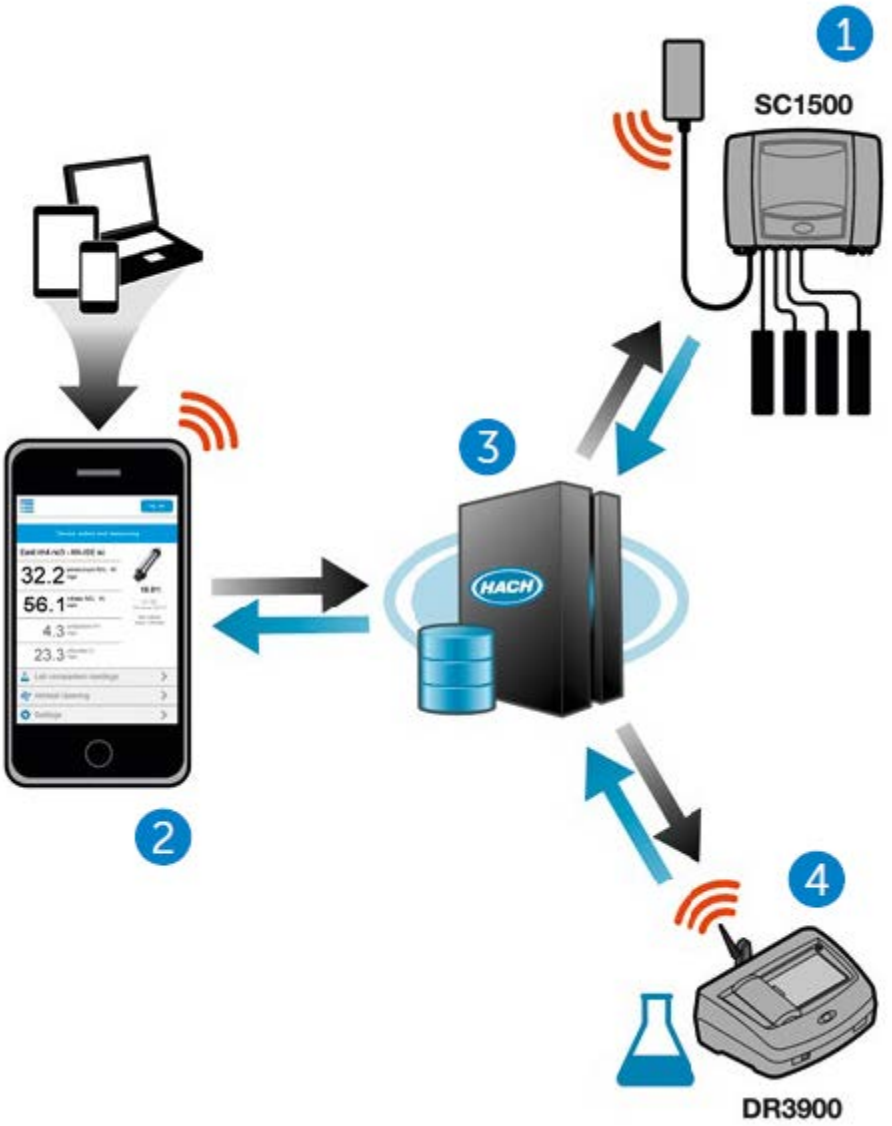
SC1000 MULTI-PARAMETER UNIVERSAL CONTROLLER

Applications

- Wastewater
- Drinking Water
- Power
- Industrial Water



Mobile Sensor Management





Devices

7 Devices

3 critical 1 severe

East.nh4.no3 - AN-ISE sc



	11:13 15 March 2015	18.8 °C
NH ₄ -N mg/L	3.2	
NO ₃ -N mg/L	5.9	

North.turbidity - SOLITAX sc

	11:13 15 March 2016	19,1 °C
TSS mg/L	101.1	

North.po4 - PHOSPHAX sc



	11:13 15 March 2016	
PO ₄ mg/L	1.6	

East.no3 - N-ISE sc



	11:13 15 March 2016	18.2 °C
NO ₃ -N mg/L	5.7	

North.nh4 - A-ISE sc



	11:13 15 March 2016	18,4 °C
NH ₄ -N mg/L	3.1	

South.nh4 - AMTAX sc



	11:13 15 March 2016	
NH ₄ -N mg/L	1.6	



East.nh4.no3 - AN-ISE sc

Waiting for lab results...



3.2

ammonium NH₄-N
mg/L



5.9

nitrate NO₃-N
mg/L

18.8 °C

4.3

potassium K⁺
mg/L

11:13
15 March
2016

New values
every 1 minute

23.3

chloride Cl⁻
mg/L



Lab comparison readings



Airblast cleaning



Settings



Lab comparison readings

15 July 2014 | 14:33 | Job #38

UPDATED

Parameter	Device	Lab	Updated
NH ₄ -N mg/L	32.2	28.2	28.2
NO ₃ -N mg/L	56.1	56.2	55.9

10 June 2014 | 12:04 | Job #35

NO UPDATE

Parameter	Device	Lab
NH ₄ -N mg/L	32.2	30.9

4 May 2014 | 09:32 | Job #30

CANCELED

Parameter	Device	Lab
NH ₄ -N mg/L	30.5	-----
NO ₃ -N mg/L	54.2	-----

8 April 2014 | 10:05 | Job #29

UPDATED

Parameter	Device	Lab	Updated
NO ₃ -N mg/L	49.0	50.1	50.1

23 March 2014 | 07:32 | Job #28

REJECTED

Parameter	Device	Lab
NO ₃ -N mg/L	56.1	69.2



Job #38

North.nh4.no3 - ANISE sc

Parameter	Device	Lab	Updated
NH ₄ -N mg/L	32.2	28.2	28.2
NO ₃ -N mg/L	56.1	56.2	55.9

Sample taken 15 July 2014, 13:23
Taken by Rudi Schmidt
Notes none

Sample analyzed 15 July 2014, 14.33
Analyzed by Jane Smith
DR 3900 methods #30 NH₄-N
#31 NO₃-N

Issue NH₄-N and NO₃-N calibration needed
Action Matrix correction @ 15 July 2014
Archived 15 July 2014

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Devices

7 Devices

3 critical 1 severe

East.nh4.no3 - AN-ISE sc



11:13 15 March 2015

13.8 °C

NH₄-N mg/L

3.2

NO₃-N mg/L

5.9

North.turbidity - SOLITAX sc



11:13 15 March 2016

13.1 °C

TSS mg/L

101.1

North.po4 - PHOSPHAX sc



11:13 15 March 2016

PO₄ mg/L

1.6

East.no3 - N-ISE sc



11:13 15 March 2016

18.2 °C

NO₃-N mg/L

5.7

North.nh4 - A-ISE sc



11:13 15 March 2016

13.4 °C

NH₄-N mg/L

3.1

South.nh4 - AMTAX sc



11:13 15 March 2016

NH₄-N mg/L

1.6



East.nh4.no3 - AN-ISE sc

Waiting for lab results...



3.2

ammonium NH₄-N
mg/L



5.9

nitrate NO₃-N
mg/L

18.8 °C

11:13
15 March
2016

New values
every 1 minute

4.3

potassium K⁺
mg/L

23.3

chloride Cl⁻
mg/L



Lab comparison readings



Airblast cleaning



Settings



Airblast settings

Online



Schedule

15 seconds every 4 hours

Hold values

15 seconds

Relay position

pins A-B

Next cleaning

3:20:14

Sensor

AN-ISE sc

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Airblast settings

Offline



Schedule

15 seconds every 4 hours

Hold values

15 seconds

Relay position

pins A-B

Next cleaning

00:00:00

Sensor

AN-ISE sc

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Devices

7 Devices

3 critical 1 severe

East.nh4.no3 - AN-ISE sc



11:13 15 March 2015 18.8 °C
NH₄-N mg/L 3.2
NO₃-N mg/L 5.9

North.turbidity - SOLITAX sc

11:13 15 March 2016 19.1 °C
TSS mg/L 101.1

North.po4 - PHOSPHAX sc



11:13 15 March 2016
PO₄ mg/L 1.6

EastL.nh03 - N-ISE sc



11:13 15 March 2016 18.2 °C
NO₃-N mg/L 5.7

North.nh4 - A-ISE sc



11:13 15 March 2016 18.4 °C
NH₄-N mg/L 3.1

South.nh4 - AMTAX sc



11:13 15 March 2016
NH₄-N mg/L 1.6



East.nh4.no3 - AN-ISE sc

Waiting for lab results...



3.2 ammonium NH₄-N mg/L

5.9 nitrate NO₃-N mg/L

4.3 potassium K⁺ mg/L

23.3 chloride Cl⁻ mg/L



18.8 °C

11:13
15 March
2016

New values
every 1 minute



Lab comparison readings



Airblast cleaning



Settings



Settings

Name East.nh4.no3

Measurement NH₄-N mg/L
NO₃-N mg/L

Temperature 17.5 °C
no adjustment

K⁺ compensation Automatic

Cl⁻ compensation 2.0 mg/L

Response time 10 seconds

mA outputs

Reset

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mA outputs

1C - NH₄-N 4 mA - 1 mg/L
20 mA = 15 mg/L

2C NO₃-N 4 mA - 1 mg/L
20 mA = 15 mg/L

3C Temperature 4 mA - 5 °C
20 mA = 50 °C

Manually test outputs



Reset

The current settings will be
changed to the following
defaults:

Name East.nh4.no3
Measurement NH₄-N mg/L
NO₃-N mg/L
Temperature °C
K⁺ Compensation No adjustment
Cl⁻ Compensation Automatic
Response time 10 seconds

CANCEL

RESET

< North.po4 - PHOSPHAX sc

Air filter pad replacement due in
1 day

1.6 phosphate PO₄
mg/L



11:13
15 March
2016

values
updated
every 10
minutes

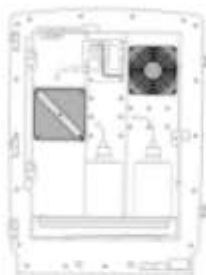
⚙ Cleaning >

⚙ Settings >

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< Air filter pad



Use these guided
steps to replace the
two air filter pads.
Estimated completion
time: 10-15 minutes.

Output
mA value and relay

Hold

CANCEL

CONTINUE

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< Air filter pad

⚠ Caution



Chemical exposure hazard. Obey
laboratory safety procedures
and wear all of the personal
protective equipment
appropriate to the chemicals
that are handled. Refer to the
current safety data sheets
(MSDS/SDS) for safety protocols.

CANCEL

CONTINUE

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Air filter pad



Collect these items:

- air filter pads (2x)
- soft, wet cloth
- magnetic Philips screwdriver
- safety glasses



The fan stops in maintenance mode. To prevent overheating, keep the analyzer door open.

CANCEL

CONTINUE

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Enter maintenance mode

Outputs will be set on hold.
The device will enter maintenance mode and measurements will stop. This can take 30 seconds.

CANCEL

CONTINUE

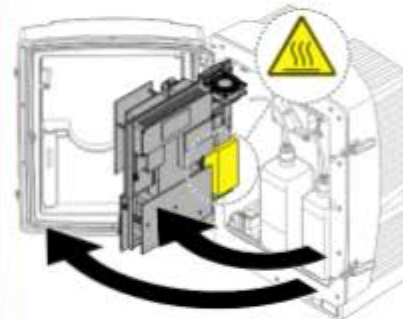


Air filter pad

1

Open the device door and then the panel door.

 [Safety information](#)



2



[SKIP INSTRUCTIONS](#)

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SC1500 Controller



Mobile Sensor Management

SC1500 Controller



Mobile Sensor Management

SC1500 Controller

Mobile Sensor Management



Digital Controller SC4200c



Applications

- Wastewater



The next generation controller

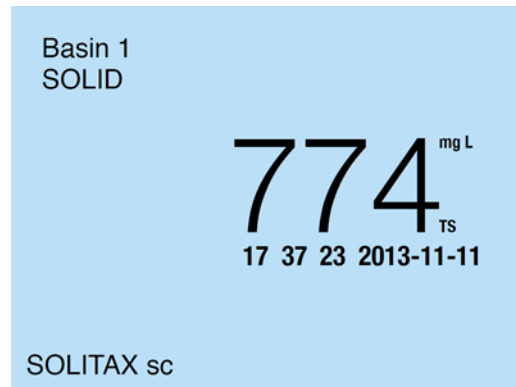
PROGNOSIS INSTRUMENT MANAGEMENT



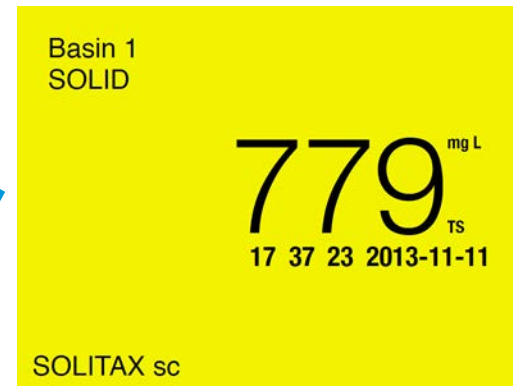
THE DIFFERENCE IS IN THE YELLOW

sc1000 operation without Prognosis

Normal Operation



Instrument Warning



Instrument Error



PROGNOSIS

Company Confidential



PROGNOSIS

Eliminate last-minute maintenance emergencies.

PROGNOSYS is a predictive diagnostic system that allows you to be proactive in your maintenance, by alerting you to upcoming instrument issues. Know with confidence whether changes in your measurements are due to changes in your instrument or your water.



Measurement Indicator

The measurement indicator monitors the instrument's components and uses that information to alert the user to upcoming instrument needs before measurements become questionable.



Service Indicator

The service indicator tracks the number of days until the instrument will require maintenance or service.

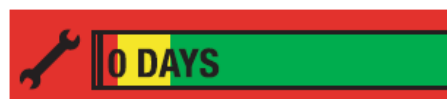
Time to plan your maintenance *before* your measurements are affected.

MAINTENANCE REQUIRED



Measurement Indicator

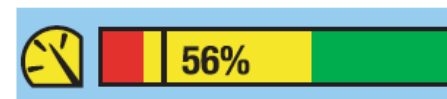
Calibration slope is outside of acceptable limits
Sample requires unusually high optics capacity
Excessive light detected during sample reading
Poor sample quality detected



Service Indicator

Maintenance required for filters, valves, pumps, tubing and other wear items

MAINTENANCE PENDING



Measurement Indicator

Calibration is nearing unacceptable limits
Sample requires more optical capacity than expected
High light exposure during sample reading
Questionable sample quality detected



Service Indicator

Expected maintenance required within 90 days for filters, valves, pumps, tubing and other wear items

MAINTENANCE PERFORMANCE



Measurement Indicator

Calibrations are within acceptable limits
Required optical capacity is within a reasonable range
Minimal or no light exposure detected during sample reading
Detected sample can be read accurately



Service Indicator

No maintenance required within the next 90 days

HACH Service Solutions Instrument Management

Service Programs

Field Service Partnership (FSP)

- Ideal for process instrumentation
- On-site preventative maintenance and repairs by a certified Hach Field Service Technician
- Start-up on-site*
- Unscheduled travel to site for repairs
- Fast on-site response time for emergencies

Bench Service Partnership (BSP)

- Ideal for lab products, especially spectrophotometers
- At factory, preventative maintenance and repairs by a certified Hach Service Technician
- Return shipping of instrument after maintenance

WarrantyPlus™ Upgrade

(Upgrade from basic factory warranty.)

- Ideal for process or lab products**
- On-site preventative maintenance and repairs by a certified Hach Field Service Technician
- Start-up on-site—includes basic operational training*
- Unscheduled travel to site for repairs
- Fast on-site response time for emergencies

Custom Programs

Hach can create a customized Service Program to meet your unique requirements. The customized program may include uptime-assurance, reagent replenishment services, or other services described here.

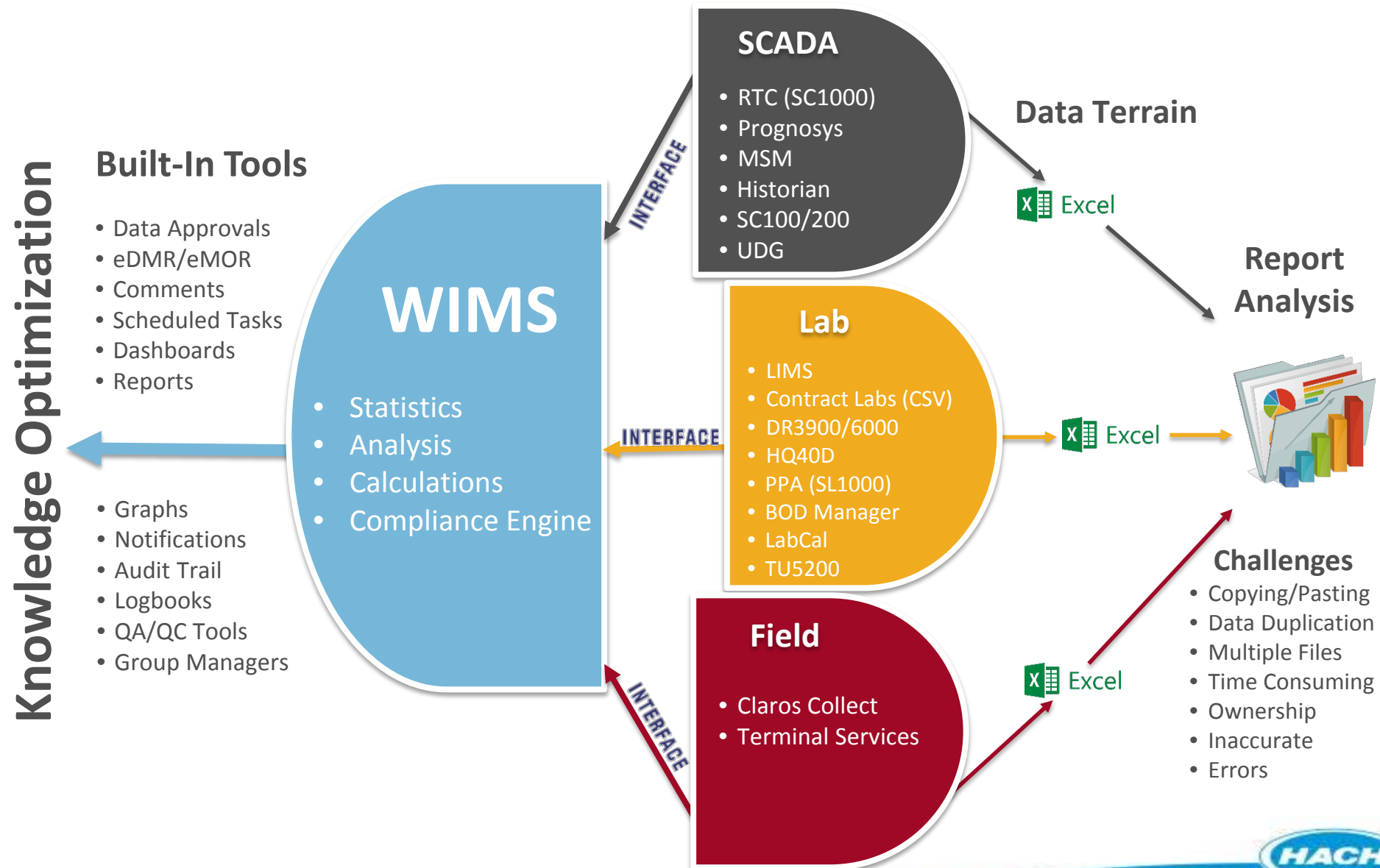
*Not required for all products and does not include method specific training—consult with your local sales team. **Some lab products require shipment to factory for repair.

HACH WIMS

Water Information Management Solution

DATA MANAGEMENT

DATA MANAGEMENT SOLUTIONS



CLAROS COLLECT

Menu

Home

5 Bench Sheets

Search

Name ▾

Elevated & Ground Storage Tanks

LOC 054 = 38 East Landing

LOC 055 = 16 West Landing

LOC 055 = 34 Main Street

Monthly Bacteria Monitoring Sites - 001 to 025

← LOC 054 = 38 East Landing

LOC 054 = 38 East Landing [View archive](#)

Thursday | 8 March 2018

Bathroom Sink

Ammonia

mg/L

[Show Recent](#)

[Add note](#)

Chloride, Total Residual

mg/L

[Show Recent](#)

[Add note](#)

Chlorine, Total Residual

[Add note](#)

Monochloramine

mg/L

[Show Recent](#)

[Add note](#)

Nitrite Nitrogen, Total

mg/L

[Show Recent](#)

[Add note](#)

pH

pH

[Show Recent](#)

[Add note](#)

Observations

Your observations will be saved to plant log book.

CANCEL

SAVE

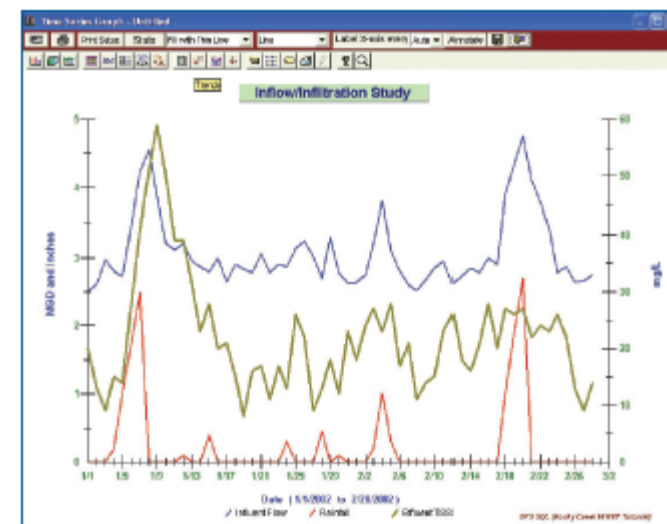
Ammonia

.5 mg/L

[Show Recent](#)

Over the limit of 0.3

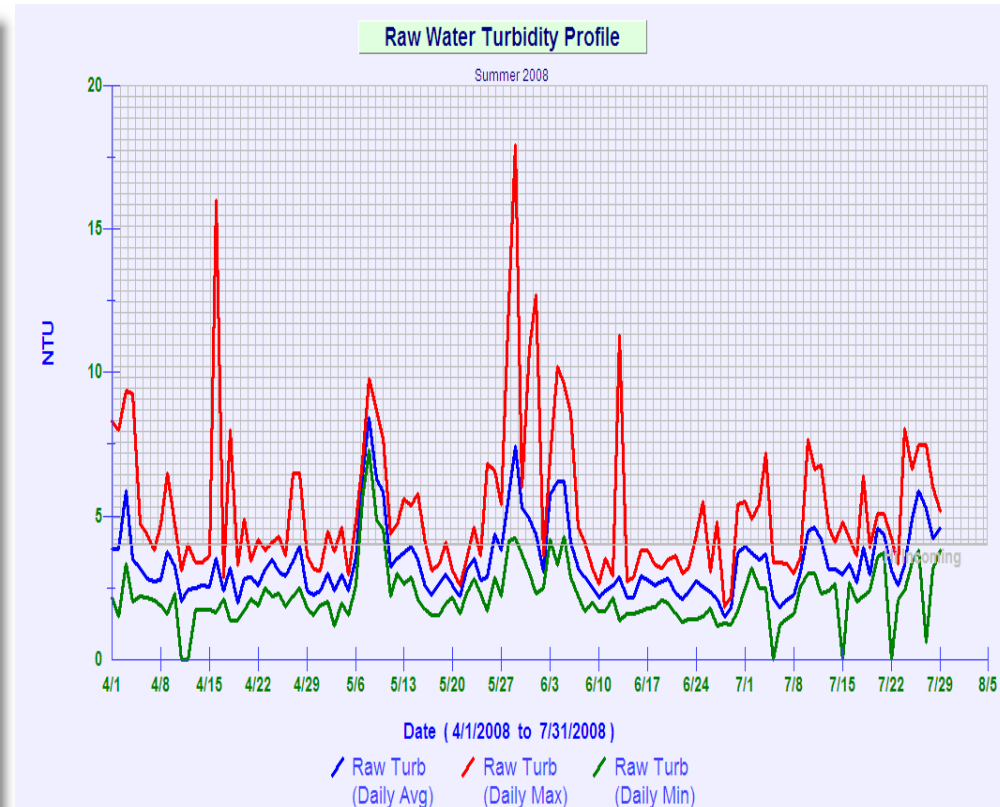
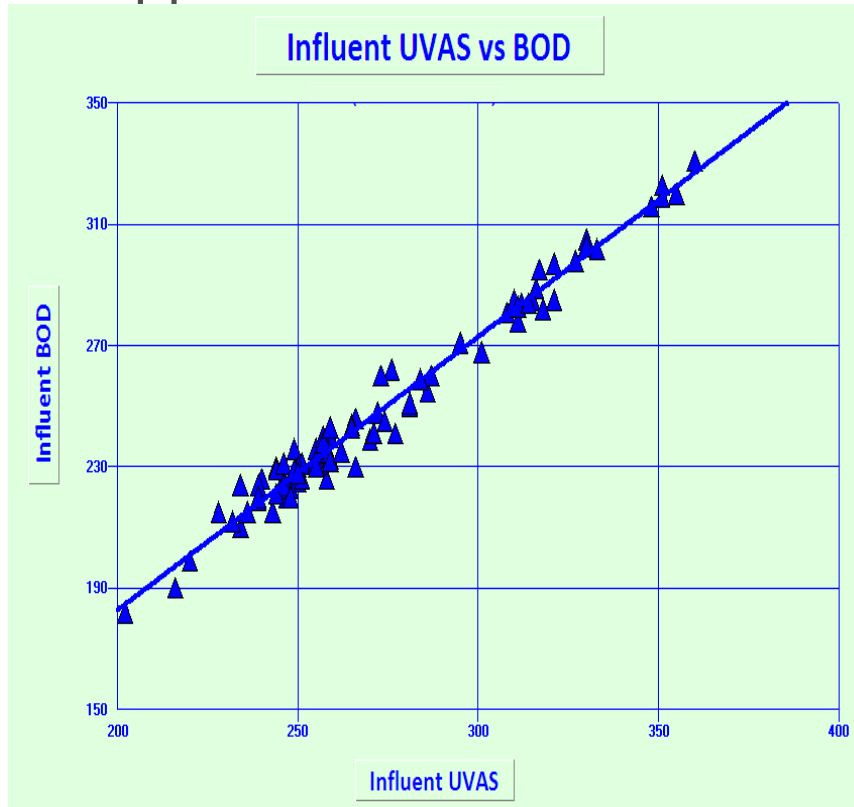
[Add note](#)

[illegible]

SAVE...Time...Money...Know Your Process and Costs

1) COMBINE DATA FROM FIELD, LAB AND OPERATIONS

- Enable easy access to cross-functional data
- Configure graphs for trend analysis, correlations, and control charting
- Compare various sets of data to identify cost reduction opportunities





Western Berks Water Authority

Operator Dashboard

Previous Day's CT Values

10.00 385.78

Giardia Virus



Time Sheets

Daily Logbook Entry

Monthly Dam Flow Report

DATE : Aug 19, 2012 02:09 am

User: CCURRAD

DAILY ENTRY FORMS



Operator Board Entry



Daily Operating Report



LNB Data



Filter Logs



DAF Solids Entry



Dam Release Log

Monthly Entry Forms



Berks Rabbit Scheme



Turbidity Report



Minimum C2 Report

Daily Status Entry

Daily CT Calculation

Log Books



Plant Logbook



LNB Logbook

QA/QC

1st Shift QA/QC

2nd Shift QA/QC

3rd Shift QA/QC

Daily Plant Info

Current Outside Temperature

57.2 deg F

Plant Flow

2394.00 cfs



Stream Flow

125.00 cfs



Filter Run Times

Filter #1

29.3 hrs

Filter #2

13.7 hrs

Filter #3

77.6 hrs

Filter #4

61.9 hrs

Filter #5

0.0 hrs

Filter #6

5.7 hrs

Filter #7

53.9 hrs

Filter #8

37.8 hrs

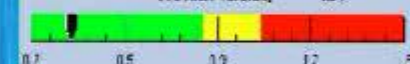
*Times are approx. 1 hour behind

QA/QC Gauges

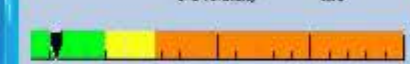
Finished pH



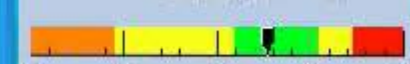
Pre Filter Turbidity

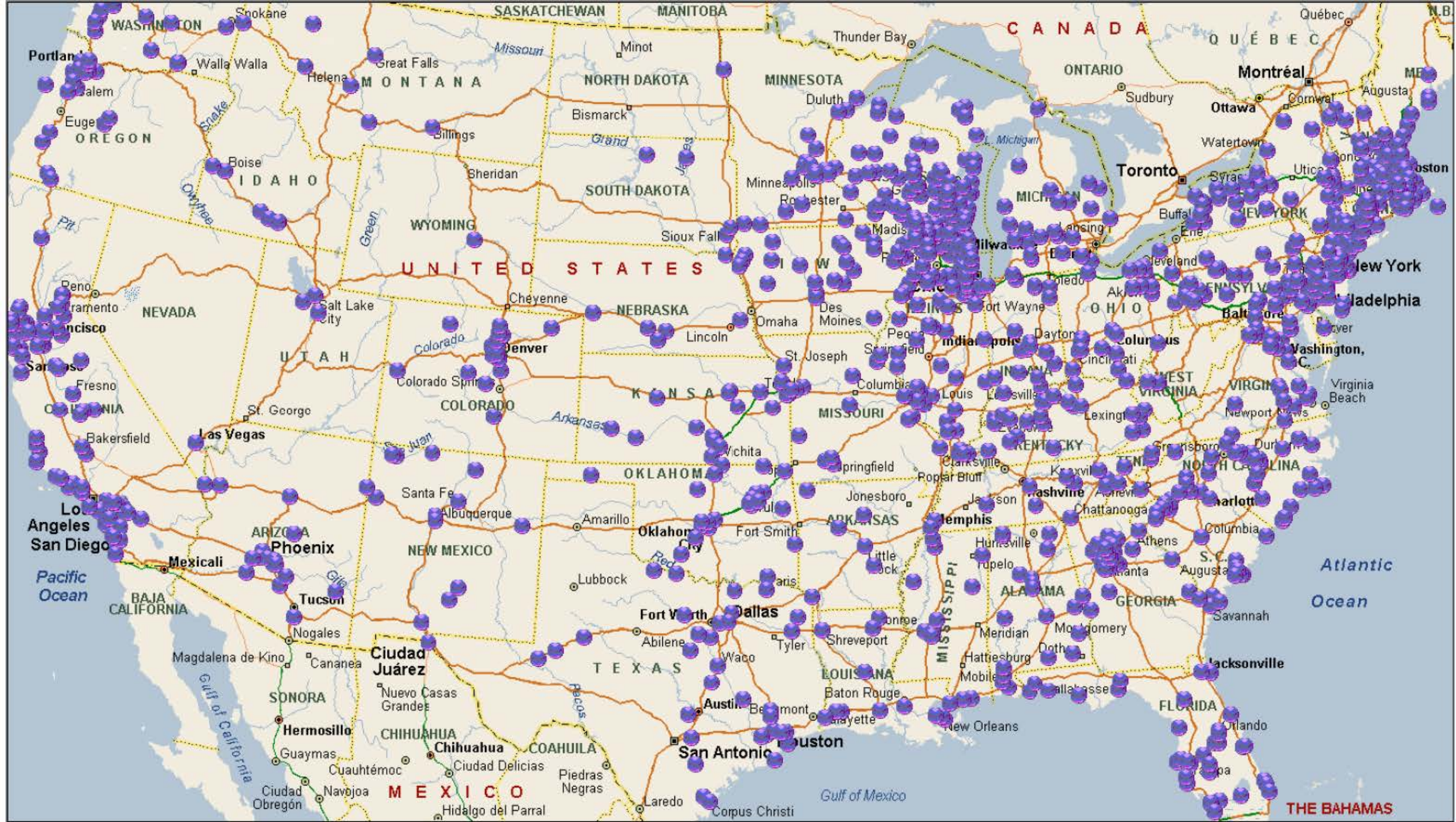


CPE Turbidity



Finished Water C2





SOME OF HACH'S 1700 WIMS CUSTOMERS



50 + sites



300 + sites





CHARLOTTE



renewable water resources

























WANNA LEARN MORE?

www.hach.com