

See Your Data. Trust Your Data.

Mobile Sensor Management (MSM) ensures confidence in your water quality analysis.

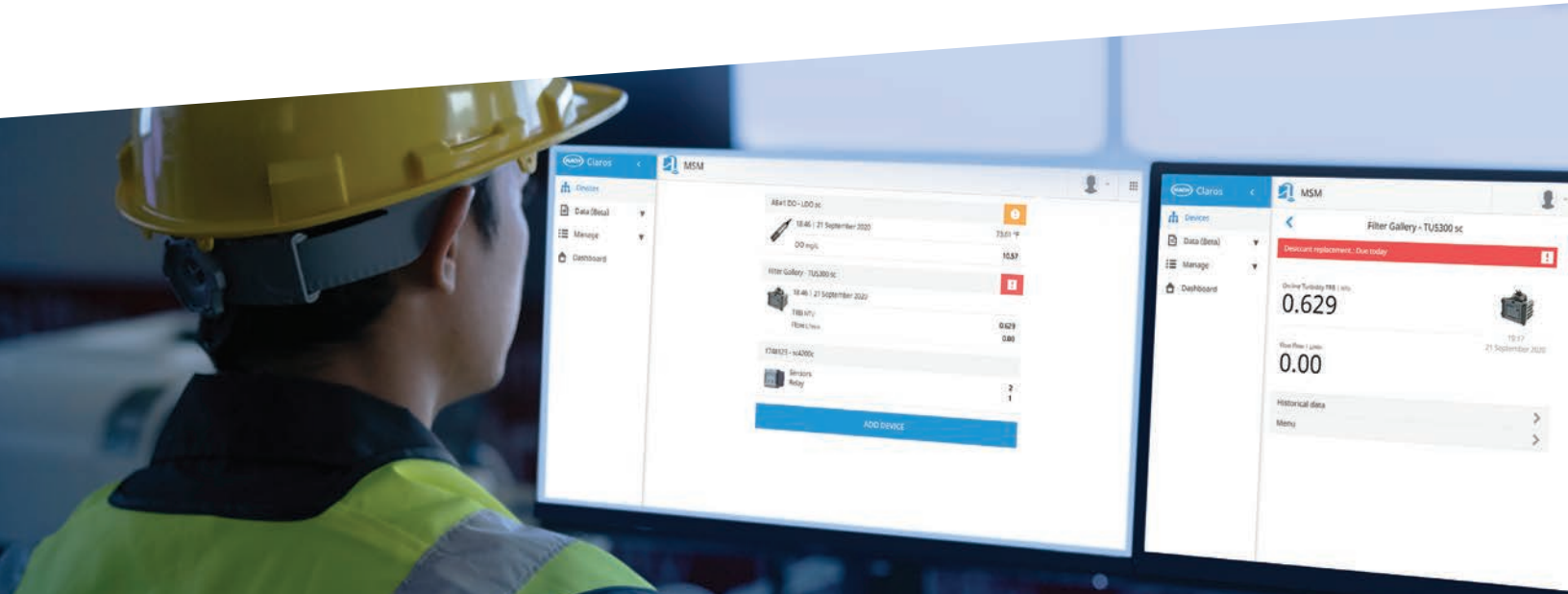


Be Right™



Mobile Sensor Management (MSM)

With remote access to your data—anytime, anywhere—and mobile software guiding your instrument maintenance, MSM removes blind spots and prevents inaccurate information.



Remote Data Visibility

- Access from any connected device

Real-time View of Instrument Health

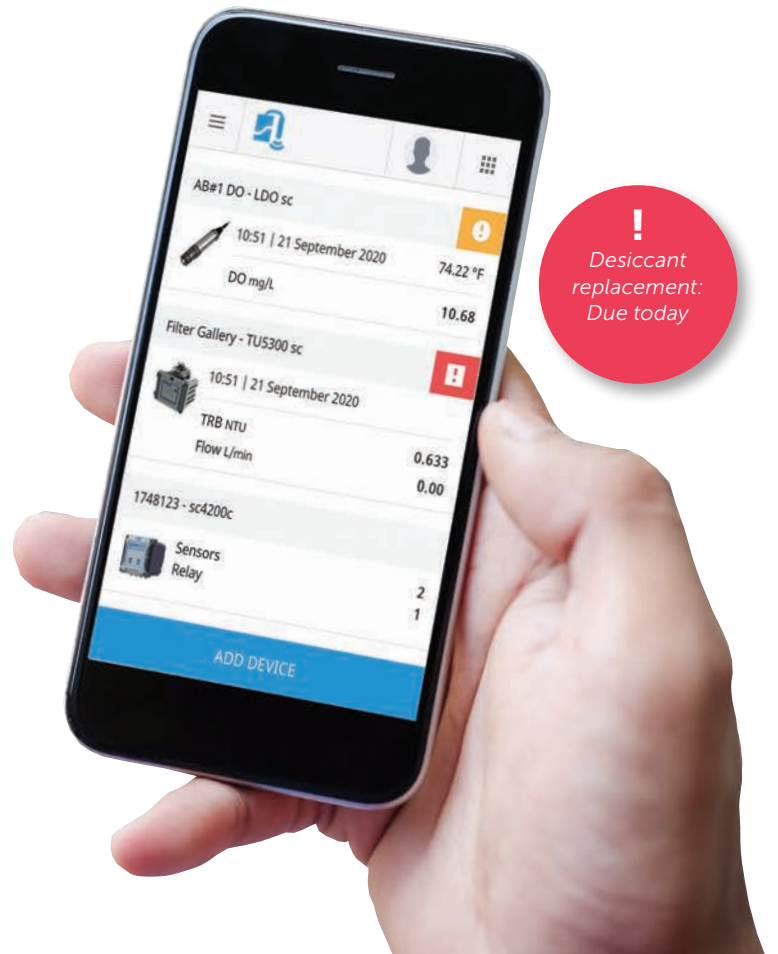
- Verify measurement accuracy
- Instrument malfunction alerts
- Proactive maintenance notifications
 - Reduce instrument downtime or missing data

Maintenance Instructions in the Palm of Your Hand

- Step-by-step instructions on any mobile device
 - No User Manuals needed
- Trigger maintenance activities remotely

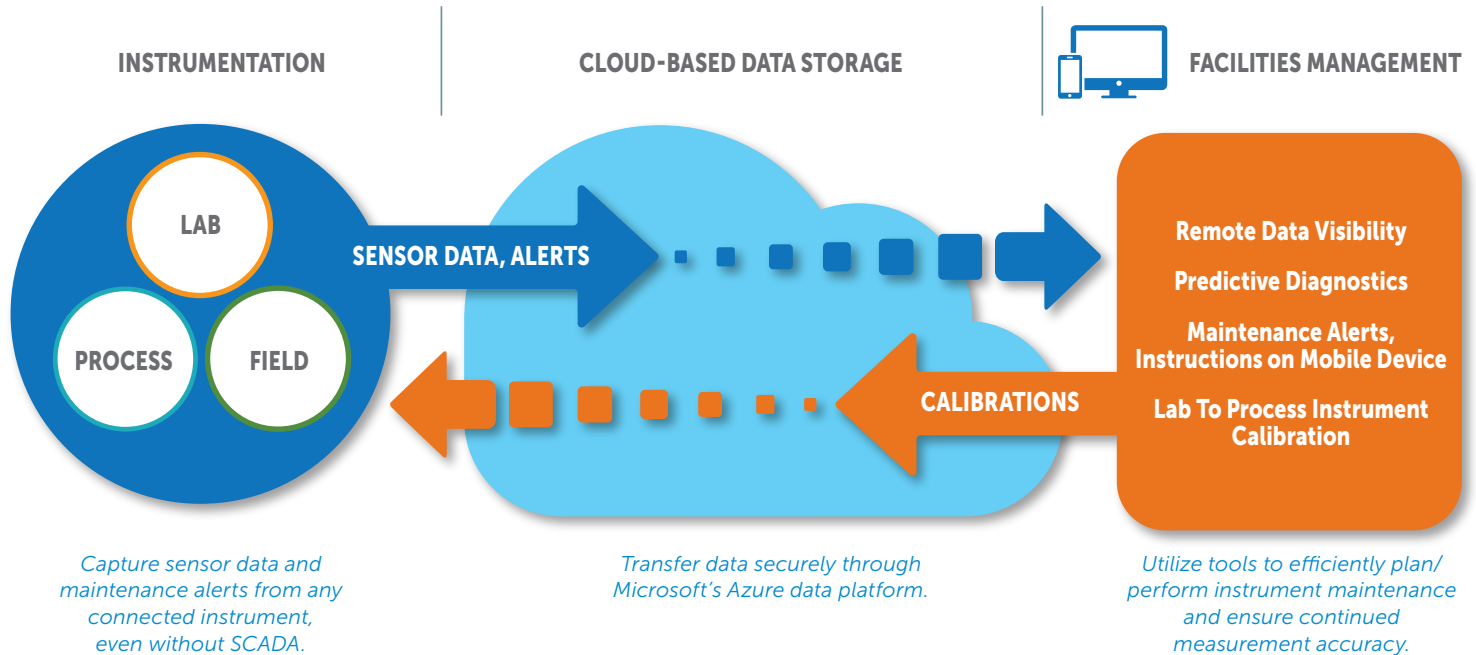
Safe and Secure Access

- Hosted through Microsoft Azure
- Multi-layered security
- Periodic scans & penetration tests
- Confidentiality with encryption

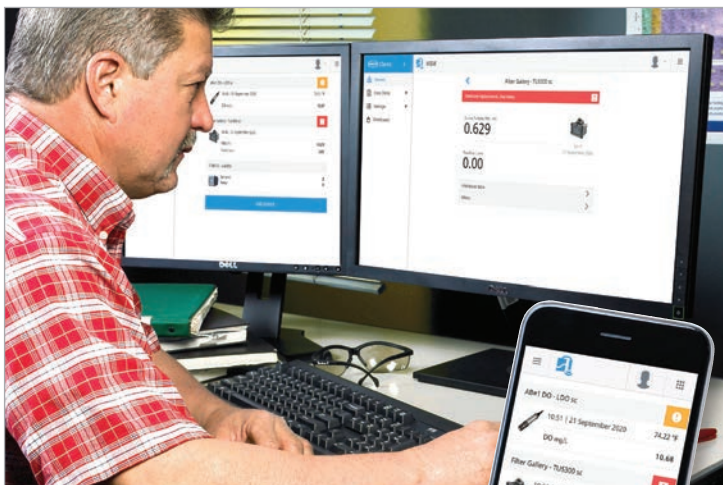


Overview

Mobile Sensor Management (MSM) is a web-based software solution that provides remote visibility to and maintenance guidance for your instrumentation. It allows you to focus on your highest priorities and ensure accurate data from well-maintained analysis equipment.

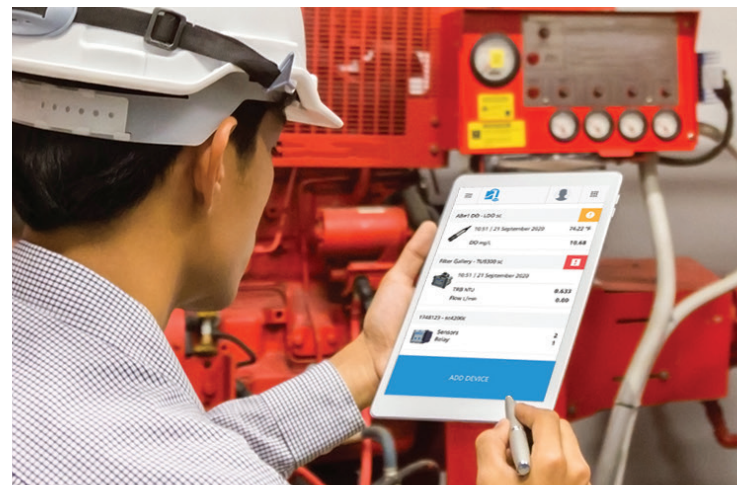


Key Functionalities



Remote Visibility

Provides remote access to instrument readings and alerts—anywhere, any time, and on any connected device.

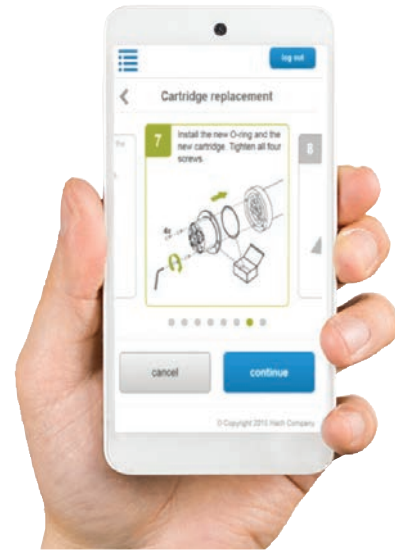
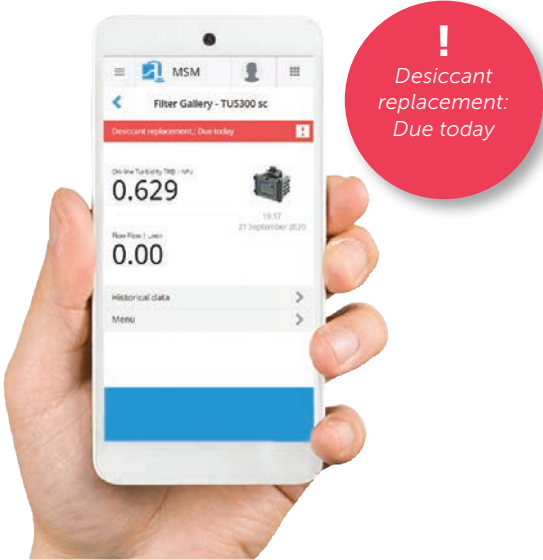


Device Viewer

See the status of all your instrumentation in one easy-to-read list.



Key Functionalities



Alerts

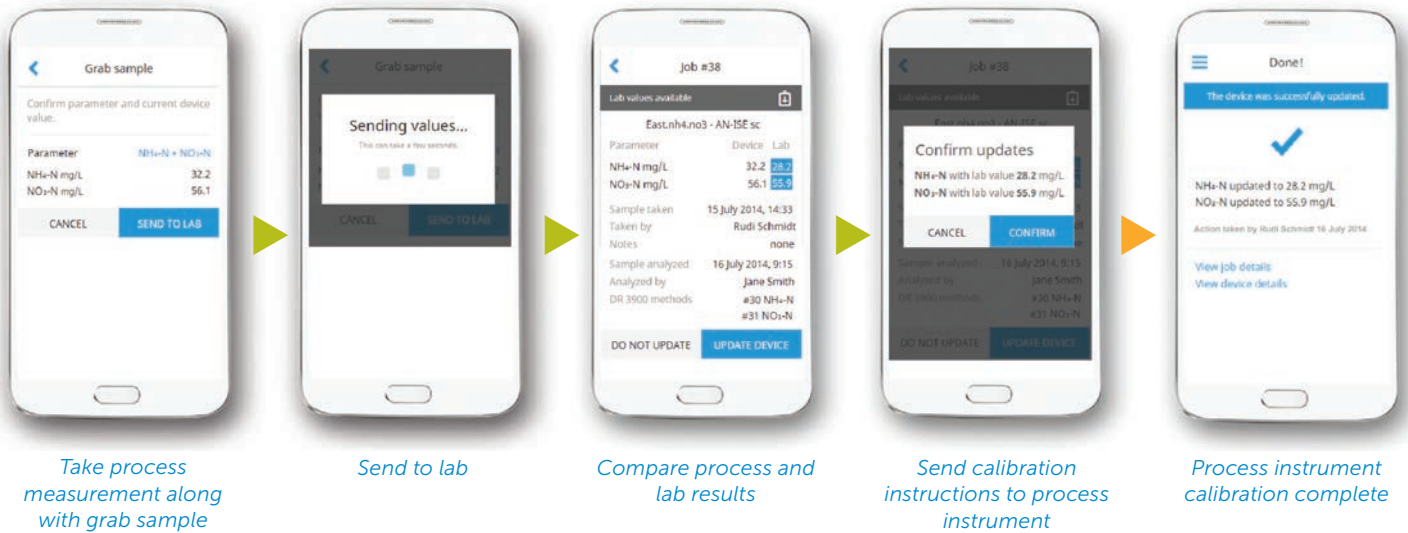
Receive alerts for critical needs and reminders to help proactively plan maintenance to ensure continual instrument update and data accuracy.

Maintenance Instructions

Ensure maintenance is performed correctly with step-by-step instructions on any mobile device.

Instrument Calibrations

Verify process instrument measurements versus lab reference values and calibrate remotely.



MSM-Compatible Controllers

Mobile Sensor Management is enabled by internet-connected controllers that deliver measurement and instrument data from your compatible Hach sensors and analyzers to the Claros software platform. Several controller options are available to provide the appropriate configuration for your operations.



SC4500 Digital Controller

- 2 sensors
- 4G/3G(GSM/CDMA), Wi-Fi, LAN
- Profibus DP, Modbus TCP/IP, EtherNet/IP, Profinet, 4-20mA
- 5 mA outputs



SC1500 Controller

- 2, 4, or 6 sensors
- 4G/3G(GSM/CDMA), Wi-Fi, LAN
- Profibus DP, Modbus TCP/IP, 4-20mA
- 4, 8, or 12 mA outputs

Connect via Existing Instrumentation

The Claros Connector allows you to easily connect existing SC200 and SC1000 Universal Controllers to the Claros platform, thus giving you access to Mobile Sensor Management.*



Claros Connector with SC200 Controller

(Claros Connector comes in SC4200c housing box)

- 2 sensors
- 4G/3G (GSM), Wi-Fi, LAN
- Edge device only; Communication, Outputs, and Display located on attached SC200 Controller



Claros Connector with SC1000 Controller

(Claros Connector comes in SC4200c housing box)

- 2, 4, or 6 sensors
- 4G/3G (GSM), Wi-Fi, LAN
- Edge device only; Communication, Outputs, and Display located on attached SC1000 Controller

*Mobile Sensor Management (MSM) requires a subscription to utilize the software. Full MSM functionality via the Claros Connector will be available in mid-2021.

MSM-Compatible Analysis Instrumentation

Parameter	MSM-Compatible Instrument	Application Industries						
		Municipal Drinking Water	Municipal Wastewater	Industrial Water	Food and Beverage	Power	Pulp and Paper	Other Industries
Ammonia, Ammonium	Amtax sc Analyzer ■ ●	✓	✓		✓		✓	Oil & Gas (Upstream)
Ammonium	A-ISE sc Sensor ■ ●		✓		✓		✓	
Ammonium, Nitrate	AN-ISE sc Sensor ■ ●		✓		✓		✓	
Chlorine (Amperometric)	9184sc Analyzer	✓	✓	✓		✓		
Chlorine (Colorimetric)	CL17sc Analyzer ■ ●	✓	✓	✓	✓	✓	✓	Field Use, Oil & Gas (Upstream), Pharmaceutical, Semiconductor
Chlorine (Colorimetric)	CL17 Ultra Low Range (ULR) ■ ●			✓				
Chlorine (Amperometric)	CL10sc Analyzer	✓	✓	✓	✓	✓		Oil & Gas (Upstream)
Chlorine Dioxide	9187sc Analyzer	✓	✓	✓		✓		Oil & Gas (Upstream)
Conductivity (Contacting)	3400sc Sensor	✓		✓	✓	✓	✓	Oil & Gas (Upstream)
Conductivity (Inductive)	3700sc Sensor	✓	✓	✓	✓		✓	Chemical, Clean Water, Metal & Mining, Oil & Gas (Upstream), Steam Systems, Surface Water
Conductivity (Inductive)	3798sc Sensor	✓	✓					Surface Water
Dissolved Oxygen	LDO 2 sc Sensor ■ ●	✓	✓	✓	✓		✓	Oil & Gas (Upstream)
Nitrate (Ion Selective Electrode)	N-ISE sc Sensor ■ ●		✓		✓		✓	
Nitrate (Optical, UV Absorption Technology)	Nitratax clear sc Probe ■	✓		✓				Environmental
Nitrate (Optical, UV Absorption Technology)	Nitratax eco sc Probe ■	✓	✓	✓				Environmental
Nitrate (Optical, UV Absorption Technology)	Nitratax plus sc Probe ■	✓	✓	✓	✓		✓	Environmental

■ Available with Predictive Diagnostic Software (Prognosis)

● Available with Mobile Maintenance Instructions



Continued on next page.

MSM-Compatible Analysis Instrumentation

Parameter	MSM-Compatible Instrument	Application Industries						
		Municipal Drinking Water	Municipal Wastewater	Industrial Water	Food and Beverage	Power	Pulp and Paper	Other Industries
Organic Constituents	UVAS sc Sensor	✓	✓	✓	✓		✓	Oil & Gas (Upstream)
Ortho-Phosphate	Phosphax sc Analyzer ■ ●	✓	✓		✓		✓	
Ortho-Phosphate	Phosphax sc Low-Range Analyzer ■	✓	✓	✓	✓		✓	
Ozone (Amperometric)	9185sc Sensor	✓		✓		✓		
pH, ORP/Redox (High Purity)	8362sc Sensor			✓	✓	✓		
pH, ORP/Redox	pHD Sensor	✓	✓	✓	✓	✓	✓	
pH, ORP/Redox	1200-S sc Sensor		✓	✓				
Sludge Level	Sonatax sc Sensor		✓	✓	✓		✓	
Suspended Solids (High Range)	Solitax hs-line sc Probe ■ ●		✓	✓	✓	✓	✓	
Suspended Solids (Turbidity)	Solitax high-line sc Sensor ■ ●	✓	✓	✓	✓	✓	✓	
Suspended Solids (Turbidity)	Solitax in-line sc Sensor ■ ●	✓	✓	✓	✓	✓	✓	
Suspended Solids (Turbidity)	Solitax ts-line sc Sensor ■ ●	✓	✓	✓	✓	✓	✓	
Suspended Solids (Turbidity)	TSS sc Sensor	✓	✓	✓	✓	✓	✓	Environmental, Pure Water
Turbidity (High Range)	SS7sc (Surface Scatter 7sc) Turbidimeter	✓	✓	✓	✓		✓	
Turbidity	Solitax t-line sc Sensor ■ ●	✓	✓		✓	✓	✓	
Turbidity	TU5300/5400 Turbidimeters ■	✓	✓		✓	✓		Pharmaceutical
Turbidity	Ultraturb sc Turbidimeter							Maritime

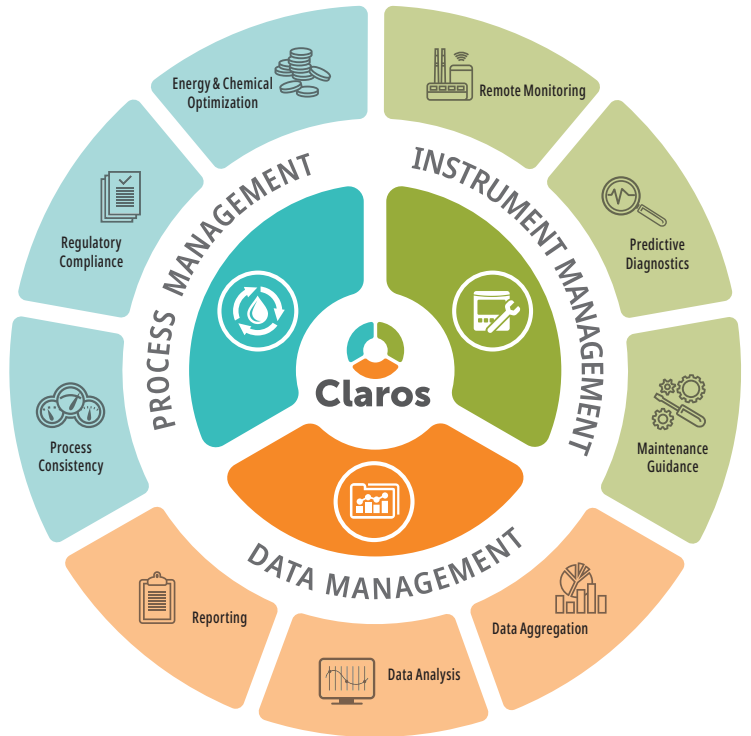
■ Available with Predictive Diagnostic Software (Prognosys)

● Available with Mobile Maintenance Instructions



Mobile Sensor Management is part of Claros, the Water Intelligence System from Hach®. This suite of digital solutions helps water professionals with regulatory compliance, process optimization, cost savings and remote operations. Whether it's instrument, data or process management, Claros solutions combine smart instrumentation with innovative software to eliminate uncertainty, reduce costs, and improve efficiency.

Learn more at: hach.com/Claros



With Hach Service, you have a global partner who understands your needs and cares about delivering timely, high-quality service you can trust. Our service team brings unique expertise to help you maximize instrument uptime, ensure data integrity, maintain operational stability, and reduce compliance risk. Be confident with Hach Service.

Learn more at: hach.com/Service

To learn more about Mobile Sensor Management, contact your local Hach Representative or visit:

hach.com/Claros-Instrument-Management

HACH World Headquarters: Loveland, Colorado USA

United States: 800-227-4224 tel 970-669-2932 fax orders@hach.com

Outside United States: 970-669-3050 tel 970-461-3939 fax int@hach.com

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