

Water Quality Meters & Probes



- **HQd™ Meters & IntelliCAL™ Probes**
- **sensION™+ Meters & Probes**
- **H-Series Meters & Probes**
- **MP Meters**



Be Right™



Complete solutions for your applications.

Hach provides the right solution for your specific application, whether it's analyzing your source water, controlling your process, or monitoring your effluent.

With over 60 years of experience delivering the right solutions and the greatest number of EPA-approved methods, Hach is your trusted partner in water analysis.



**Integrated
Lab Solutions &
Chemistries**



**Comprehensive
Process
Instrumentation**



Expert Support



Dependable Service

Call your dedicated customer service representative today or go online to use our Live Help option.

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Hach Water Quality Meters & Probes: Complete solutions give you the right tool for your applications.

Hach's portfolio of meters and probes provides the right solution for your testing needs, backed by years of innovation and technical support. Whether you require a simple, dedicated pH meter and electrode or an advanced, expandable, multi-parameter system, Hach has your answer. No other supplier combines such a broad selection of products with the accuracy, ease-of-use, durability and flexibility that you demand.

Accurate

You don't just need an answer, but the right one, and fast. Optimized stabilization algorithms in Hach meter platforms eliminate operator guesswork and reduce inaccurate measurements. Many electrodes work specifically to deliver accurate results and the quickest response, even in challenging environments.

Easy to use

Now, more than ever, you're looking for new ways to stretch your dollar and resources. Skip studying complicated user manuals and spend your time measuring, thanks to Hach's innovative menu designs and simple keypads for truly intuitive operation.

Rugged and durable

Rely on Hach's durable measuring systems designed to withstand the rigors of outdoor testing and frequent use. Choose from the industry's toughest probes or non-glass electrodes for rugged, waterproof systems that deliver day after day.

Flexible

Need to measure in both the lab and field? Hach offers efficiency with reliable, high-performance systems that easily move with you from the benchtop directly to the testing site. Measure the parameters you need today with the assurance you can expand in the future.

Universal Meters & Probes



HQd™ Meters & IntelliCAL™ Probes

SMART PROBES

Hach, the leader in water quality, has developed a customized solution for water quality testing that takes the guesswork out of your measurements. Designed for your water applications, the Hach smart probes automatically recognize the testing parameter, calibration history, and method settings to minimize errors and setup time.

sensION™+ Meters & Probes

COMPLETE SIMPLICITY

Hach sensION+, an all-in-one system with guided menu navigation makes general testing fast and simple. Each system is designed to be used in a wide variety of applications and comes complete with everything you need to start testing.



	HQd	sensION+
Ease of Use	★★★★★	★★★★★
Accuracy & Performance	★★★★★	★★★★★
Durability	★★★★★	★★★★★
Flexibility	★★★★★	★★

Specialty Meters & Probes



H-Series Meters & Probes

NON-GLASS

Hach's rugged, non-glass H-Series family of pH sensors, resist damage and store dry to eliminate maintenance in laboratory and field testing of difficult applications. Use with Hach's H-Series benchtop or portable meters in areas where glass is not preferred such as rugged, outdoor, and food applications.



MP Meters

GO PROBELESS

Hach's MP Meters offer single-handed, portable operation for spot checking the pH, ORP, conductivity, resistivity, Total Dissolved Solids (TDS) and temperature of clean water. Fast and accurate in the laboratory, MP Meters are also rugged enough for daily process checks in challenging environments.



Hach's Meters & Probes Family

	UNIVERSAL METERS & PROBES		SPECIALTY METERS & PROBES	
	Smart HQd Meters & IntelliCAL Probes	Simple sensION+ Meters & Probes	Non-glass H-Series Meters & Probes	Probeless MP Meters
	<ul style="list-style-type: none"> Compliance monitoring for drinking water and wastewater Laboratory verification of process instrumentation Industrial plant control Environmental monitoring Rugged field applications 	<ul style="list-style-type: none"> Compliance monitoring for drinking water and wastewater Laboratory verification of process instrumentation Industrial plant control Environmental monitoring Beverage quality testing 	<ul style="list-style-type: none"> Food processing Beverage quality testing Academic teaching Pharmaceutical research/development Industrial plant control 	<ul style="list-style-type: none"> Industrial plant control Boiler/cooling water applications Water treatment control Distribution monitoring Pool and spa maintenance Tap or spigot sampling
PARAMETERS				
pH				
Glass	■	■	■	■
Non-glass (ISFET)			■	
Conductivity	■	■	■	■
Resistivity	■	■		■
Salinity	■	■	■	
TDS	■	■	■	■
Ammonia	■	■	■	
Ammonium	■	■		
Chloride	■	■		
Dissolved Oxygen				
Luminescent (LDO®)	■			
BOD Probe (with LDO)	■			
Galvanic			■	
Polarographic		■		
Fluoride	■	■	■	
Temperature	■	■	■	■
Nitrate	■	■	■	
ORP/Redox	■	■	■	■
Sodium	■	■	■	
ATTRIBUTES				
Multi-parameter Options	■	■	■	■
Simultaneous Display	■	■		
Stainless Steel Probes	■		■	
Auto Probe Recognition	■			
Multiple Cable Lengths	■			
Multi-language Display	■	■		
On-screen Instructions	■			
Wireless Communication*			■	
USB Connectivity	■	■	■	

*For Bluetooth® capable models only

Hach pH Probes by Application

★ **BEST** ✓ **GOOD** □ **NOT APPLICABLE**

	HQd							
	PHC101	PHC201	PHC301	PHC281	5010T	5011T	5014T	5021T
Applications								
General Purpose		★	★		★		✓	
Drinking Water		✓		★			★	✓
Wastewater	★	✓	✓	✓	✓	★		✓
Boiler / Cooler				★			✓	★
Seawater	✓	✓	✓	★	✓	✓	✓	✓
Beverage		✓	✓	★		✓	★	✓
Food				✓			✓	✓
Education		★	★		★	✓		
Pool / Spa	✓	★			★			
Soils	✓ rugged							
Pharma				★				★
Sample Types								
Field Measurements	★ rugged							
Low Ionic Strength				★				✓
High Temperature		★					★	
Low Temperature				★			★	



sensION+						H-Series				
5050T	5051T	5052T	5045	5048	5059	PH17	PH37	PH47	PH57	PH77
★			✓	✓	✓					✓
✓	★	✓	✓	✓	✓					
		★								
✓	✓	✓	✓	✓	✓					
	✓	★								
	✓	✓				✓	★	✓	★	✓
★	✓					✓				★
★			✓	✓	✓					
						✓	✓	✓	✓	✓
		★								
✓	✓	✓	✓	✓	✓	★ non-glass	★ non-glass	★ non-glass	★ non-glass	★ non-glass
		★								



HQd Portable Meters



Now offering a complete water analysis portfolio of testing parameters with standard, rugged, and ultra options. Hach's HQd system gives maximum measurement flexibility and ease of operation with interchangeable probes and automatic parameter recognition.

Parameter

	HQ11d DEDICATED pH/mV PORTABLE METER	HQ14d DEDICATED CONDUCTIVITY PORTABLE METER	HQ30d SINGLE INPUT MULTI-PARAMETER PORTABLE METER	HQ40d DUAL INPUT MULTI-PARAMETER PORTABLE METER
Temperature	■	■	■	■
pH -Glass	■		■	■
mV	■		■	■
Conductivity		■	■	■
TDS		■	■	■
Salinity		■	■	■
Resistivity		■	■	■
DO -Luminescent (LDO) DO -BOD Probe (with LDO)			■ ■	■ ■
ORP/Redox	■		■	■
Ammonia			■	■
Nitrate			■	■
Fluoride			■	■
Sodium			■	■
Chloride			■	■
Ammonium			■	■

Feature

	HQ11d DEDICATED pH/mV PORTABLE METER	HQ14d DEDICATED CONDUCTIVITY PORTABLE METER	HQ30d SINGLE INPUT MULTI-PARAMETER PORTABLE METER	HQ40d DUAL INPUT MULTI-PARAMETER PORTABLE METER
IP rating	IP67	IP67	IP67	IP67
Internal Data Storage	500*	500*	500*	500*
Inputs	M12 digital (1) for IntelliCAL probes	M12 digital (1) for IntelliCAL probes	M12 digital (1) for IntelliCAL probes	M12 digital (1) for IntelliCAL probes
Outputs	USB to PC / flash stick	USB to PC / flash stick	USB to PC / flash stick	USB to PC / flash stick
Interface Languages	13**	13**	13**	13**
Warranty	3 years	3 years	3 years	3 years
Compliance	CE.WEEE	CE.WEEE	CE.WEEE	CE.WEEE
Benchtop	with stand	with stand	with stand	with stand
Portable	■	■	■	■
GLP Features	■	■	■	■
PC Data Transfer Software	included	included	included	included
Backlight	■	■	■	■
Battery Operation	■	■	■	■
AC Power Supply	optional	optional	optional	included
Prod. No.	HQ11d53000000	HQ14d53000000	HQ30d53000000	HQ40d53000000

*Expanded storage with external USB storage device. **English, German, Spanish, Portuguese, French, Italian, Dutch, Turkish, Polish, Danish, Swedish, Russian, Czech

HQd Benchtop Meters



All the benefits of the digital HQd system,
with simplified data transfer and easy-to-read
results on a large, backlit screen.

NEW!

Parameter

	HQ411d DEDICATED pH/mV BENCHTOP METER	HQ430d SINGLE INPUT MULTI-PARAMETER BENCHTOP METER	HQ440d DUAL INPUT MULTI-PARAMETER BENCHTOP METER
Temperature	■	■	■
pH -Glass	■	■	■
mV	■	■	■
Conductivity		■	■
TDS		■	■
Salinity		■	■
Resistivity		■	■
DO - Luminescent (LDO)		■	■
DO - BOD Probe (with LDO)		■	■
ORP/Redox	■	■	■
Ammonia		■	■
Nitrate		■	■
Fluoride		■	■
Sodium		■	■
Chloride		■	■
Ammonium		■	■

Feature

	HQ411d DEDICATED pH/mV BENCHTOP METER	HQ430d SINGLE INPUT MULTI-PARAMETER BENCHTOP METER	HQ440d DUAL INPUT MULTI-PARAMETER BENCHTOP METER
IP rating	IP54	IP54	IP54
Internal Data Storage	500*	500*	500*
Inputs	M12 digital (1) for IntelliCAL probes	M12 digital (1) for IntelliCAL probes	M12 digital (1) for IntelliCAL probes
Outputs	USB to PC / flash stick	USB to PC / flash stick	USB to PC / flash stick
Interface Languages	13**	13**	13**
Warranty	3 years	3 years	3 years
Compliance	CE.WEEE	CE.WEEE	CE.WEEE
Benchtop	■	■	■
GLP Features	■	■	■
PC Data Transfer Software	included	included	included
Backlight	■	■	■
Battery Operation	■	■	■
Probe Stand	optional for all models	included	included
Prod. No.	HQ411D	HQ430D	HQ440D

*Expanded storage with external USB storage device. **English, German, Spanish, Portuguese, French, Italian, Dutch, Turkish, Polish, Danish, Swedish, Russian, Czech

HQd IntelliCAL Probes



Specifications	DO Luminescent Dissolved Oxygen	DO Luminescent Dissolved Oxygen	BOD Luminescent Dissolved Oxygen	Conductivity
Special Feature	LDO technology. No membranes.	LDO technology. No membranes.	LDO technology. Designed for BOD applications. No membranes.	
Probe Type	Standard	Rugged	Standard	Standard
Range	DO: 0.1 - 20.0 mg/L % Saturation: 1 - 200%	DO: 0.1 - 20.0 mg/L % Saturation: 1 - 200%	DO: 0.1 - 20.0 mg/L % Saturation: 1 - 200%	Conductivity: 0.01 μ S/cm - 200 mS/cm TDS: 0 - 50,000 mg/L as NaCl Salinity: 0 - 42 g/kg or (‰) Resistivity: 2.5 Ω -cm - 49 M Ω -cm
Temp Range	Continuous Use: 0 to 50°C	Continuous Use: 0 to 50°C	Continuous Use: 0 to 50°C	Continuous Use: -10 to 110°C
Thermistor	■ (ATC)	■ (ATC)	■	■ (ATC)
Dimensions	15 mm (D) x 200 mm (L)	15 mm (D) x 220 mm (L)	15.875 mm (D)** x 200 mm (L)	14 mm (D) x 200 mm (L)
Sensor Type	Lumiphore	Lumiphore	Lumiphore	4-pole graphite
Junction	—	—	—	—
Body Material	PC/Abs	PC/Abs with Stainless Steel	PC/Abs	Noryl
Filling Solution	—	—	—	—
ISA Required	—	—	—	—
Prod. No.	LDO10101*	LDO10105*	LBOD10101*	CDC40101*



Specifications	ORP/Redox Combination Gel-filled	ORP/Redox Combination Refillable	ORP/Redox Combination Gel-filled	Ammonia Combination ISE
Special Feature	Flat disc sensor for easy cleaning. Low maintenance.	Flat disc sensor for easy cleaning.	Flat disc sensor for easy cleaning.	Easy-to-replace membrane modules.
Probe Type	Standard	Standard	Rugged	Standard
Range	\pm 1200 mV	\pm 1200 mV	\pm 1200 mV	0.007 mg/L (5×10^{-7} M) to 14,000 mg/L (1 M) NH_3 -N
Temp Range	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 50°C
Thermistor	■	■	■	■
Dimensions	12 mm (D) x 200 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)
Sensor Type	Platinum disc	Platinum disc	Platinum disc	Gas sensing: glass w/ replaceable NH_3 sensitive membrane
Reference Type	—	—	—	Ag/AgCl
Junction	Open	Ceramic	Open	Annular
Body Material	Epoxy	Epoxy	Zeonor™ with Stainless Steel	Epoxy
Filling Solution	—	2841700	—	4447226
ISA Required	—	—	—	4447169
Prod. No.	MTC10101*	MTC30101*	MTC10105*	ISENH3181*

*1 meter standard and 5 meter rugged probes described above. All standard probes available in 1 or 3 meter cable lengths. All rugged probes available in 5, 10, 15 or 30 meter cable lengths.
**Fits BOD bottle neck size > 15.875mm inside diameter

HQd IntelliCAL Probes



NEW!

Conductivity	pH Ultra Refillable Combination	pH Gel-filled Combination	pH Gel-filled Combination	pH Refillable Combination	pH Gel-filled Combination
	Fast response time.	Wastewater and difficult samples.	General purpose. Clean water samples		Low maintenance.
Rugged	Standard	Standard	Standard	Standard	Rugged
Conductivity: 0.01 μ S/cm - 200 mS/cm TDS: 0 - 50,000 g/L Salinity: 0 - 42 g/kg or (‰) Resistivity: 2.5 Ω -cm - 49 M Ω -cm	0 to 14 pH	2 to 14 pH	0 to 14 pH	0 to 14 pH	2 to 14 pH
Continuous Use: -10 to 110°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 50°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 80°C	Continuous Use: 0 to 50°C
■ (ATC)	■ (ATC)	■ (ATC)	■ (ATC)	■ (ATC)	■ (ATC)
14 mm (D) x 220 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 200 mm (L)	12 mm (D) x 220 mm (L)
4-pole graphite	Glass	Glass	Glass	Glass	Glass
—	Open	Open	Ceramic	Ceramic	Open
Noryl with Stainless Steel	Zeonor™	Zeonor™	Epoxy	Zeonor™	Zeonor™ with Stainless Steel
—	2965026	—	—	2841700	—
—	—	—	—	—	—
CDC40105*	PHC28101*	PHC10101*	PHC20101*	PHC30101*	PHC10105*



NEW!

NEW!

NEW!

NEW!

Ammonium Combination ISE	Chloride Combination ISE	Fluoride Combination ISE	Nitrate Combination ISE	Sodium Combination ISE
Dry storage & fast response time. No replacement membranes.	Dry storage & fast response time. No replacement membranes.	Dry storage & fast response time. No replacement membranes.	Dry storage & fast response time. No replacement membranes.	Fast response time.
Standard	Standard	Standard	Standard	Standard
0.07 mg/L (5×10^{-6} M) to 7,000 mg/L (0.5 M) NH_4^+ -N	0.1 mg/L (3×10^{-6} M) to 35,500 mg/L (1 M) Cl^-	0.02 mg/L (1×10^{-6} M) to 19,000 mg/L (1 M) F^-	0.1 mg/L (7×10^{-6} M) to 14,000 mg/L (1 M) NO_3^- -N	0.023 mg/L (1×10^{-6} M) to 23,000 mg/L (1 M) Na^+
Continuous Use: 0 to 50°C	Continuous Use: 5 to 50°C	Continuous Use: 5 to 50°C	Continuous Use: 0 to 50°C	Continuous Use: 0 to 50°C
■	■	■	■	■
12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)	12 mm (D) x 220 mm (L)
Solid-state PVC membrane	Solid-state disc	Solid-state crystal	Solid-state PVC membrane	Glass
Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl	Ag/AgCl
Annular	Annular	Annular	Annular	Ceramic
Epoxy	Epoxy	Epoxy	Epoxy	Zeonor™
—	—	—	—	2965126
2980699	2318069	258999	2984799	4451569
ISENH4181*	ISECI181*	ISEF121*	ISENO3181*	ISENa38101*

sensION+ Portable Meters

Hach sensION+, an all-in-one system with guided menu navigation makes general testing fast and simple.

NEW!



<i>Parameter</i>	PH1 BASIC PORTABLE pH METER	MM110 PORTABLE pH/ORP MULTI-SENSOR METER	EC5 PORTABLE CONDUCTIVITY METER	DO6 PORTABLE DISSOLVED OXYGEN METER	MM150 PORTABLE MULTI-PARAMETER MULTI-SENSOR METER
Temperature	■	■	■	■	■
pH	■	■			■
Conductivity			■		■
Salinity			■		■
TDS			■		■
Dissolved Oxygen				■	
ORP/Redox	■	■			■

<i>Feature</i>	PH1 BASIC PORTABLE pH METER	MM110 PORTABLE pH/ORP MULTI-SENSOR METER	EC5 PORTABLE CONDUCTIVITY METER	DO6 PORTABLE DISSOLVED OXYGEN METER	MM150 PORTABLE MULTI-PARAMETER MULTI-SENSOR METER
IP rating	IP67	IP67	IP67	IP67	IP67
Internal Data Storage	—	—	—	—	—
Inputs	MP5	MP8	MP5	MP5	MP8
Outputs	—	—	—	—	—
Interface Language(s)	Icon-based	Icon-based	Icon-based	Icon-based	Icon-based
Warranty	3 years	3 years	3 years	3 years	3 years
Compliance	CE.WEEE	CE.WEEE	CE.WEEE	CE.WEEE	CE.WEEE
GLP Features	—	—	—	—	—
PC Data Transfer Software (optional)	—	—	—	—	—
Backlight	■	■	■	■	■
Battery Operation	■	■	■	■	■
Prod. No.	LPV2500.97.0002	LPV2600.97.0002	LPV3500.97.0002	LPV4500.97.0002	LPV4000.97.0002

senslON+ Benchtop Meters

Each system is designed to be used in a wide variety of applications and comes complete with everything you need to start testing.



NEW!

Parameter	PH3 BASIC BENCHTOP pH METER	PH31 GLP BENCHTOP pH METER	EC7 BENCHTOP CONDUCTIVITY METER	EC71 GLP BENCHTOP CONDUCTIVITY METER	MM340 BENCHTOP MULTI- PARAMETER METER	MM374 BENCHTOP MULTI- PARAMETER METER
Temperature	■	■	■	■	■	■
pH	■	■			■	■
mV		■			■	■
Conductivity Salinity TDS			■ ■	■ ■ ■		■ ■ ■
ORP/Redox	■	■			■	■
Ammonia					■	■
Nitrate					■	■
Fluoride					■	■
Sodium					■	■
Chloride					■	■
Ammonium					■	■

Feature	PH3 BASIC BENCHTOP pH METER	PH31 GLP BENCHTOP pH METER	EC7 BENCHTOP CONDUCTIVITY METER	EC71 GLP BENCHTOP CONDUCTIVITY METER	MM340 BENCHTOP MULTI- PARAMETER METER	MM374 BENCHTOP MULTI- PARAMETER METER
IP rating	IP42	IP42	IP42	IP42	IP42	IP42
Internal Data Storage	—	330	—	400	330	330
Inputs	BNC, ref, Pt1000	BNC, ref, Pt1000	E.C. cell, Pt1000	E.C. cell, Pt1000	2 BNC, 2 ref, Pt1000	2 BNC, 2 ref, 1 E.C.
Outputs	RS-232*	RS-232* (two-way)	RS-232*	RS-232*	RS-232* (two-way)	RS-232* (two-way)
Interface Language(s)	6**	6**	6**	6**	6**	6**
Warranty	3 years	3 years	3 years	3 years	3 years	3 years
Compliance	CE.WEEE	CE.WEEE	CE.WEEE	CE.WEEE	CE.WEEE	CE.WEEE
GLP Features	—	■	—	■	■	■
PC Data Transfer Software (optional)	■	■	■	■	■	■
Backlight	■	■	■	■	■	■
AC Operation	■	■	■	■	■	■
Prod. No.	LPV2000.97.0002	LPV2100.97.0002	LPV3010.97.0002	LPV3110.97.0002	LPV2200.97.0002	LPV4110.97.0002

*USB compatibility with included adapter. **English, German, Spanish, French, Italian, and Portuguese.

sensION+ Probes for Portable Meters

NEW!



Specifications

	pH Combination Gel-filled	pH Combination Solid Gel Wastewater	pH Combination Low Conductivity High Temperature	ORP / Redox Combination Gel-filled	Dissolved Oxygen
Special feature		With Working Protector. Solid gel for high solids content.	With Working Protector. For low ionic strength and/or high temperature.		Long-lasting, steel-reinforced membrane.
Range	0 to 14 pH	2 to 14 pH	0 to 14 pH	±2000 mV	0.03 mg/L to saturation
Temperature Range	0 to 80°C	0 to 80°C	0 to 100°C	0 to 80°C	0 to 60°C
Temperature Sensor	Pt 1000	Pt 1000	Pt 1000	—	NTC
Dimensions	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 120 mm (w/o handle)
Sensor Type	Glass	Glass	Glass	Platinum Annular	Polarographic
Junction	Ceramic	Open	Annular	Ceramic	—
Body Material	Polycarbonate	Glass	Glass	Polycarbonate	PPS
Filling Solution	—	—	—	—	—
Prod. No.	LZW5050T.97.002	LZW5051T.97.002	LZW5052T.97.002	LZW5055.97.0002	LZW5120.97.0002

NEW!



Specifications

	Conductivity	Conductivity	Multi Combination**	Multi Combination*	Multi Combination**
Special Feature	—	For harsh samples	pH, Conductivity, ORP	pH, ORP	pH, Conductivity
Range	0.2 µS/cm to 200 mS/cm	5 µS/cm to 50 mS/cm	0 to 14 pH 25-200 mS/cm; ±2000 mv	0 to 14 pH ±2000 mV	0 to 14 pH 5 µS/cm–30 mS/cm
Temperature Range	0 to 80°C	0 to 80°C	0 to 80°C	0 to 80°C	0 to 80°C
Temperature Sensor	Pt 1000	Pt 1000	Pt 1000	Pt 1000	Pt 1000
Dimensions	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 85 mm (w/o handle)	12 mm (D) x 85 mm (w/o handle)
Sensor Type	Platinum	Titanium	pH: Glass Cond: Platinum; ORP: Platinum	pH: Glass ORP: Platinum	pH: Glass Cond.: Titanium
Junction	—	—	Ceramic	Ceramic	Ceramic
Body Material	Outside: Polycarbonate Inside: Glass	Titanium	Polycarbonate	Polycarbonate	Polycarbonate
Filling Solution	—	—	—	—	—
Prod. No.	LZW5060.97.0002	LZW5062.97.0002	LZW.5048.97.0002	LZW5045.97.0002	LZW5059.97.0002

*Only for use on MM110 Meter. **Only for use with MM150 Meter.

sensION+ Probes for Benchtop Meters

NEW!



Specifications

	pH Combination Gel-filled	pH Combination Refillable	pH Combination Gel-filled Wastewater	pH Combination Refillable
Special Feature		TRIS compatible	Solid gel for high solids content	Clog-free Sleeve Junction for low ionic strength
Range	0 to 14 pH	0 to 14 pH	2 to 14 pH	0 to 14 pH
Temperature Range	0 to 80°C	-10 to 100°C	0 to 80°C	0 to 60°C
Temperature Sensor	Pt 1000	Pt 1000	Pt 1000	Pt 1000
Dimensions	12 mm (D) x 130 mm (w/o handle)	12 mm (D) x 130 mm (w/o handle)	12 mm (D) x 130 mm (w/o handle)	12 mm (D) x 130 mm (w/o handle)
Sensor Type	Glass	Glass	Glass	Glass
Junction	Ceramic	Ceramic (2)	Open	Open with sleeve
Body Material	Polycarbonate	Glass	Glass	Glass
Filling Solution	—	LZW9500.99	—	LZW9500.99
Prod. No.	LZW5010T.97.002	LZW5014T.97.002	LZW5011T.97.002	LZW5021T.97.002

NEW!



Specifications

	Conductivity	ORP Gel-filled Combination	ORP Refillable Combination
Special Feature			
Range	0.2 µS/cm to 200 mS/cm	±2000 mV	±2000 mV
Temperature Range	0 to 80°C	0 to 80°C	0 to 80°C
Temperature Sensor	Pt 1000	—	—
Dimensions	12 mm (D) x 130 mm (w/o handle)	12 mm (D) x 130 mm (w/o handle)	12 mm (D) x 130 mm (w/o handle)
Sensor Type	Platinum	Platinum	Platinum
Junction	—	Ceramic	Ceramic
Body Material	Outside: Polycarbonate Inside: Glass	Glass	Glass
Filling Solution	—	—	LZW9500.99
Prod. No.	LZW5070.97.0002	LZW5056.97.0002	LZW5057.97.0002

sensION+ ISE Probes

NEW!



Specifications

	Sodium ISE	Chloride ISE	Fluoride ISE	Nitrate ISE
Special Feature		Dry storage and fast response time. No replacement membranes.	Dry storage and fast response time. No replacement membranes.	Dry storage and fast response time. No replacement membranes.
Range	0.05 to 23,000 mg/L Na ⁺	1 to 35,000 mg/L Cl ⁻	0.02 to 20,000 mg/L F ⁻	0.4 to 62,000 mg/L NO ₃ ⁻
Temperature Range	0 to 60°C	5 to 50°C	5 to 50°C	5 to 40°C
Dimensions	12 mm (D) x 120 mm	12 mm (D) x 120 mm	12 mm (D) x 120 mm	12 mm (D) x 120 mm
Sensor Type	Sodium Selective Glass Membrane	Solid-State Chloride Selective Membrane	Solid-State Fluoride Selective Membrane	Solid-State Nitrate Selective Polymer Membrane
Junction	—	—	—	—
Body Material	Glass	ABS	ABS	ABS
Filling Solution	—	—	—	—
Prod. No.	LZW9650.97.0002*	LZW9652.97.0002*	LZW9655.97.0002*	LZW9662.97.0002*

NEW!



Specifications

	Ammonium ISE	Ammonia Combination ISE	Reference Electrode
Special Feature	Dry storage and fast response time. No replacement membranes.		Double junction reference electrode for ISEs, large ceramic diaphragm
Range	0.9 to 1,800 mg/L NH ₄ ⁺	0.06 to 17,000 mg/L as NH ₃	—
Temperature Range	5 to 40°C	0 to 50°C	0 to 60°C
Dimensions	12 mm (D) x 120 mm	12 mm (D) x 149 mm	12 mm (D) x 120 mm
Sensor Type	Solid-State Ammonium Selective Polymer Membrane	Gas Sensing Ammonia Selective Membrane	—
Junction	—	Annular	Ceramic
Body Material	ABS	ABS	Glass
Filling Solution	—	—	LZW9901.99
Prod. No.	LZW9663.97.0002*	5192700	LZW5044.97.0002

This ion selective electrode is a half cell and requires a reference electrode.

miniLab® Pocket pH Meters

When you don't want the hassle of a probe but still need a non-glass pH meter.



Specifications

<i>Specifications</i>	H130 miniLAB POCKET pH METER	H135 miniLAB POCKET pH METER	H138 miniLAB POCKET pH METER
Temperature	■ (ATC)	■ (ATC)	■ (ATC)
Sensor	ISFET silicon chip pH sensor		
Calibration	1 Point	1, 2, or 3 Point	
Buffer Recognition	pH 7	pH 4, 7 & 10	
Reference	Replaceable KCl gel filled		
pH Range	Suggested range: 5.0 to 9.0 pH 2.0 to 12.0 pH	2.0 to 12.0 pH	
Resolution	0.1 pH		0.01 pH
Input Accuracy	±0.1 pH		±0.01 pH
Repeatability	±0.1 pH		±0.03 pH
Operation Temp. Range	5 to 40°C		
Display	LCD digital display		LCD digital display with temperature
Temp. Compensation	Automatic		
Power	Two 3v lithium batteries CR2032		
Battery Life	200 hours continuous / 10 hour advance low battery warning.		
Dimensions	155 x 33 x 20 mm (6 1/8" L x 1 1/4" W x 3/4" H)		
Shipping Weight	77 g (0.17 lbs.) - meter only		

Feature

	H130 miniLAB POCKET pH METER	H135 miniLAB POCKET pH METER	H138 miniLAB POCKET pH METER
IP Rating	IP67	IP67	IP67
Internal Data Storage	—	—	—
Inputs	—	—	—
Outputs	—	—	—
Interface Language(s)	English	English	English
Warranty	1 year	1 year	1 year
Compliance	CE.WEEE	CE.WEEE	CE.WEEE
GLP Features	—	—	—
Optional PC Data Transfer Software	—	—	—
Backlight	—	—	—
Battery Operation	■	■	■
AC and USB Operation	—	—	—
Prod. No.	H130	H135	H138

H-Series Portable Meters

Dual-technology meters take readings from non-glass pH and traditional probes across multiple parameters. Available with optional data management, Bluetooth®, and ISE capabilities.



Parameter	H160 WATERPROOF PORTABLE METER	H160G WATERPROOF PORTABLE METER	H170 WATERPROOF PORTABLE METER	H170G WATERPROOF PORTABLE METER
Temperature	■	■	■	■
Dual pH Technology				
Glass	■	■	■	■
Non-glass (ISFET)	■	■	■	■
mV	■	■	■	■
Conductivity			■	■
TDS			■	■
Salinity			■	■
Resistivity				
Dissolved Oxygen (Galvanic)				
ORP/Redox	■	■	■	■
Ammonia		■		■
Nitrate		■		■
Fluoride		■		■
Sodium		■		■

Feature	H160 WATERPROOF PORTABLE METER	H160G WATERPROOF PORTABLE METER	H170 WATERPROOF PORTABLE METER	H170G WATERPROOF PORTABLE METER
IP Rating	IP67	IP67	IP67	IP67
Internal Data Storage	—	999	—	999
Inputs	BNC (1), 3.5 mm phone (1), 8-pin Waterproof ISFET pH (1)	BNC (1), 3.5 mm phone (1), 8-pin Waterproof ISFET pH (1)	BNC (1), 3.5 mm phone (1), 8-pin Waterproof ISFET pH (1), 12-pin Waterproof Conductivity (1)	BNC (1), 3.5 mm phone (1), 8-pin Waterproof ISFET pH (1), 12-pin Waterproof Conductivity (1)
Outputs	—	Bluetooth	—	Bluetooth
Interface Language(s)	English	English	English	English
Warranty	3 year	3 year	3 year	3 year
Compliance	CE.WEEE	CE.WEEE.IC.FCC	CE.WEEE	CE.WEEE.IC.FCC
GLP Features	—	■	—	■
Optional PC Data Transfer Software	—	Included	—	Included
Backlight	■	■	■	■
Battery Operation	■	■	■	■
AC and USB Operation	—	—	—	—
Prod. No.	H160NP	H160GNP	H170NP	H170GNP

H-Series Benchtop Meters

Benchtop models include GLP-related features and optional Bluetooth® communication.



Parameter

	H260G BENCHTOP METER	H260GB BENCHTOP METER	H270G BENCHTOP METER	H270GB BENCHTOP METER	H280G BENCHTOP METER	H280GB BENCHTOP METER
Temperature	■	■	■	■	■	■
Dual pH Technology						
Glass	■	■	■	■	■	■
Non-glass (ISFET)	■	■	■	■	■	■
mV	■	■	■	■	■	■
Conductivity			■	■	■	■
TDS			■	■	■	■
Salinity			■	■	■	■
Resistivity						
Dissolved Oxygen (Galvanic)					■	■
ORP/Redox	■	■	■	■	■	■
Ammonia	■	■	■	■	■	■
Nitrate	■	■	■	■	■	■
Fluoride	■	■	■	■	■	■
Sodium	■	■	■	■	■	■

Feature

	H260G BENCHTOP METER	H260GB BENCHTOP METER	H270G BENCHTOP METER	H270GB BENCHTOP METER	H280G BENCHTOP METER	H280GB BENCHTOP METER
IP Rating	IP42	IP42	IP42	IP42	IP42	IP42
Internal Data Storage	999	999	999	999	999	999
Inputs	BNC (1), 3.5 mm phone (1), 4 mm reference (1), 8-pin RJ-45 ISFET pH (1)	BNC (1), 3.5 mm phone (1), 4 mm reference (1), 8-pin RJ-45 ISFET pH (1)	BNC (1), 3.5 mm phone (1), 4 mm reference (1), 8-pin RJ-45 ISFET pH (1), 12-pin Waterproof Conductivity (1)	BNC (1), 3.5 mm phone (1), 4 mm reference (1), 8-pin RJ-45 ISFET pH (1), 12-pin Waterproof Conductivity (1)	BNC (1), 3.5 mm phone (1), 4 mm reference (1), 8-pin RJ-45 ISFET pH (1), 12-pin Waterproof Conductivity (1)	BNC (1), 3.5 mm phone (1), 4 mm reference (1), 8-pin RJ-45 ISFET pH (1), 12-pin Waterproof Conductivity (1)
Outputs	USB to PC	USB to PC Bluetooth	USB to PC	USB to PC Bluetooth	USB to PC	USB to PC Bluetooth
Interface Language(s)	English	English	English	English	English	English
Warranty	3 year	3 year	3 year	3 year	3 year	3 year
Compliance	CE.WEEE	CE.WEEE.IC.FCC	CE.WEEE	CE.WEEE.IC.FCC	CE.WEEE	CE.WEEE.IC.FCC
GLP Features	■	■	■	■	■	■
PC Data Transfer Software	Included	Included	Included	Included	Included	Included
Backlight	■	■	■	■	■	■
Battery Operation	■	■	■	■	■	■
AC and USB Operation	Included	Included	Included	Included	Included	Included
Prod. No.	H260GNP	H260GBNP	H270GNP	H270GBNP	H280GNP	H280GBNP

H-Series Probes



Specifications	pH General Purpose Round Tip Combination	pH Micro Probe Combination	pH Piercing Tip Micro Probe Combination
Special Feature	Virtually indestructible for general applications.	Great for small sample sizes, flasks and test tubes.	Great for light-duty piercing applications.
Range	0 to 14 pH	0 to 14 pH	0 to 14 pH
Temp Range	Cont. Use: 0 to 60°C	Cont. Use: 0 to 60°C	Cont. Use: 0 to 60°C
Thermistor	■ (ATC)	■ (ATC)	■ (ATC)
Dimensions	140 mm x 8.3 mm	130 mm x 4.8 mm and 80 mm x 8.3 mm	90 mm x 4.8 mm and 80 mm x 8.3 mm
Sensor Type	ISFET	ISFET	ISFET
Junction	Fiber	Fiber	Fiber
Body Material	Stainless Steel	Stainless Steel	Stainless Steel
Filling Solution	—	—	—
ISA Required	—	—	—
Waterproof Connector Prod. No. (for portable meters)	PHW77-SS	PHW17-SS	PHW37-SS
Prod. No.	PH77-SS	PH17-SS	PH37-SS



Specifications	Conductivity "Bull's-Eye"	Conductivity	Conductivity	Dissolved Oxygen
Special Feature		Drinking water applications.	High salinity applications.	
Range	Conductivity: 5 µS/cm to 1 mS/cm	Conductivity: 10 µS/cm to 2 mS/cm	Conductivity: 1 mS/cm to 200 mS/cm	Dissolved Oxygen: 0 - 19.99 mg/L % Saturation: 0- 199.9%
Temp Range	Cont. Use: -10 to 110°C	Cont. Use: -10 to 110°C	Cont. Use: -10 to 110°C	Cont. Use: 0 to 50°C
Thermistor	■ (ATC)	■ (ATC)	■ (ATC)	■ (ATC)
Dimensions	110 mm x 16 mm	110 mm x 12 mm	110 mm x 12 mm	110 mm x 12 mm
Sensor Type	4-pole graphite	4-pole platinum	4-pole platinum	galvanic
Junction	—	—	—	—
Body Material	Epoxy	Glass	Epoxy	PC/Abs
Filling Solution	—	—	—	—
ISA Required	—	—	—	—
Waterproof Connector (for portable meters)	■	■	■	■
Prod. No.	CDW97-KP5	CDW97-K1	CDW97-K10	DO50-GS

H-Series Probes



Non-glass pH probes:
Virtually indestructible
Store dry
Extended shelf life
Easy maintenance
and cleaning

pH NMR Tube Micro Probe Combination	pH Piercing Tip Micro Probe Combination (Heavy-Duty Handle)
Ideal for 5 mm NMR tubes or long-reach applications.	Great for heavy-duty piercing applications.
0 to 14 pH	0 to 14 pH
Cont. Use: 0 to 60°C	Cont. Use: 0 to 60°C
■ (ATC)	■ (ATC)
220 mm x 3.8 mm and 80 mm x 8.3 mm	90 mm x 4.8 mm w/ heavy-duty handle
ISFET	ISFET
Fiber	Fiber
Stainless Steel	Stainless Steel
—	—
—	—
PHW47-SS	PHW57-SS
PH47-SS	PH57-SS



For ISE probes, visit:
www.hach.com/ISFET

ORP/Redox Combination Standard Gel-Filled	pH Combination	pH Combination Platinum Series	pH Combination Refillable
±1999 mV	0 to 14 pH	High flow rate. 0 to 14 pH	0 to 14 pH
Cont. Use: -10 to 110°C	Cont. Use: 0 to 45°C	Cont. Use: 0 to 45°C	Cont. Use: 0 to 45°C
■	■ (ATC)	■ (ATC)	■ (ATC)
110 mm x 12 mm	12.1 mm x 152.5 mm	12.7 mm x 241 mm	12.1 mm x 152.5 mm
Platinum Annular Ring	Glass	Glass	Glass
Ceramic	Ceramic	Open (PT-Series)	Ceramic
Epoxy	Epoxy	Epoxy	Epoxy
—	—	—	—
—	—	—	—
■	—	—	—
ORP110-GS	5193511	5191011	5194011

MP Meters

Multi-parameter probeless meters allow rapid spot checks of clean water applications and tap sampling.



Parameter	MP-4 PORTABLE METER WITH INTERNAL SENSORS	MP-6p PORTABLE METER WITH INTERNAL SENSORS	MP-6 PORTABLE METER WITH INTERNAL SENSORS
Temperature	■	■	■
pH		■	■
mV			
Conductivity	■	■	■
TDS	■	■	■
Salinity			
Resistivity	■		■
Mineral/Salt		■	
Dissolved Oxygen			
ORP/Redox		■	■
Ammonia			
Nitrate			
Fluoride			
Sodium			

Feature	MP-4 PORTABLE METER WITH INTERNAL SENSORS	MP-6p PORTABLE METER WITH INTERNAL SENSORS	MP-6 PORTABLE METER WITH INTERNAL SENSORS
IP Rating	IP67/NEMA 6	IP67/NEMA 6	IP67/NEMA 6
Internal Data Storage	100	100	100
Inputs	—	—	—
Outputs	IR	IR	IR
Interface Language(s)	English	English	English
Warranty	2 years (meter)	2 years (meter) 6 months (pH/ORP sensor)	2 years (meter) 6 months (pH/ORP sensor)
Compliance	CE.WEEE	CE.WEEE	CE.WEEE
GLP Features	—	—	—
Optional PC Data Transfer Software	■	■	■
Backlight	—	—	—
Battery Operation	■	■	■
AC and USB Operation	—	—	—
Prod. No.	HMP4	HMP6P	HMP6



Specifications	MP-4 PORTABLE METER WITH INTERNAL SENSORS	MP-6p PORTABLE METER WITH INTERNAL SENSORS	MP-6 PORTABLE METER WITH INTERNAL SENSORS
Special Feature	No Probes Required!	No Probes Required!	No Probes Required!
Range			
pH	—	0 to 14 pH	0 to 14 pH
ORP	—	±999 mV	±999 mV
Conductivity	0.01 µS/cm to 200 mS/cm	0.01 µS/cm to 200 mS/cm	0.01 µS/cm to 200 mS/cm
Resistivity	10 KΩ·cm - 30 MΩ·cm	—	10 KΩ·cm to 30 MΩ·cm
TDS	0.01 ppm to 200 ppt	0.01 ppm to 200 ppt	0.01 ppm to 200 ppt
Mineral/Salt	—	0.01 ppm to 200 ppt	—
Temp Range	0 to 71°C (32 to 160°F)	0 to 71°C (32 to 160°F)	0 to 71°C (32 to 160°F)
Dimensions	196 x 68 x 64 mm	196 x 68 x 64 mm	196 x 68 x 64 mm
Sensor Type			
pH	—	Glass	Glass
ORP	—	Pt	Pt
Conductivity	4-cell (316 Stainless Steel)	4-cell (316 Stainless Steel)	4-cell (316 Stainless Steel)
Body Material (Meter)	VALOX*	VALOX*	VALOX*
Filling Solution	—	—	—
ISA Required	—	—	—
Prod. No.	HMP4	HMP6P	HMP6

*Trademark of SABIC Innovative Plastics IP BV

HQd Meter & IntelliCAL Probe Bundles

- HQd meters and IntelliCAL probes now available in packaged configurations for your laboratory or portable applications.
- Choose from basic starter kits or complete advanced kits.
- Include buffers, standards, and accessories for quick ordering and simple start up.

Portable Bundles

Prod. No.	Description
8507530	Portable pH Starter Kit HQ11d pH meter, PHC201 gel pH probe with 1 m cable.
8506100	Portable Conductivity Starter Kit HQ14d conductivity meter, CDC401 standard conductivity probe with 1 m cable.
8506500	Portable ORP Starter Kit HQ11d meter with A/C power and USB adapters, MTC101 gel-filled standard ORP probe with 1 m cable.
8505800	Advanced pH/Conductivity Kit HQ40d meter with A/C power and USB adapters, PHC301 refillable pH probe with 1 m cable, CDC401 conductivity probe with 1 m cable.
8506000	Complete Water Quality Kit Portable Multi HQ40d meter with A/C power and USB adapters, PHC301 refillable pH probe with 1 m cable, CDC401 conductivity probe with 1 m cable, LDO101 standard LDO probe with 1 m cable.



Benchtop Bundles

Prod. No.	Description
8508500	BOD Kit HQ440d Multi Lab Meter, LBOD101 probe with 1 m cable.
8508600	pH Ultra Starter Kit HQ440d Multi Lab Meter, PHC281 pH Ultra refillable probe with 1 m cable.
8508700	Complete Water Quality Lab HQ440d Multi Lab Meter, PHC281 pH Ultra refillable probe, CDC401 conductivity probe, LDO101 LDO probe, all with 1 m cable.
8507600	Ammonia ISE Measurement Kit HQ440d Multi Lab Meter, ISENH3181 ammonia probe with 1 m cable.
8508000	Fluoride ISE Measurement Kit HQ440d Multi Lab Meter, ISEF121 fluoride probe with 1 m cable.
8507000	Sodium ISE Starter Kit HQ440d Multi Lab Meter, cables, ISENa381 sodium ISE probe with 1 m cable.
8508100	Nitrate ISE Measurement Kit HQ440d Multi Lab Meter, ISENO3181 nitrate probe with 1 m cable.



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HQd Rugged Field Kits

- Hach HQd meters pH, ORP, Conductivity, and LDO probes are now available in rugged field kits.
- Feature rugged probes available only from Hach.
- All required buffers and accessories for field measurement are organized securely in one durable case!

Prod. No.	Description
8505100	Rugged DO Field Kit Rugged case with durable foam insert for organization, HQ30d meter, rugged LDO101 probe with 5 m cable.
8505200	Rugged DO Field Kit with HQ40d Multi Meter Rugged case with durable foam insert for organization, HQ40d meter with A/C power and USB adapters, rugged LDO101 probe with 5 m cable.
8505300	Advanced DO/pH/Conductivity Rugged Field Kit Rugged case with durable foam insert for organization, HQ40d meter with A/C power and USB adapters, rugged LDO101 probe with 5 m cable, rugged PHC101 pH probe with 5 m cable, rugged CDC401 conductivity probe with 5 m cable.
8505400	Rugged DO/pH Field Kit Rugged case with durable foam insert for organization, HQ40d meter with A/C power and USB adapters, rugged LDO101 probe with 5 m cable, rugged PHC101 pH probe with 5 m cable.
8507300	Rugged ORP Field Kit Rugged case with HQ40d meter with A/C power and USB adapters, MTC101 ORP rugged gel-filled probe with 5 m cable.
8507400	Rugged ORP/LDO Field Kit Rugged case with HQ40d meter with A/C power and USB adapters, rugged MTC101 gel-filled ORP probe with 5 m cable, rugged LDO101 LDO probe with 5 m cable.
8507500	Rugged Environmental Conductivity/LDO Field Kit Rugged case with HQ40d meter with A/C power and USB adapters, rugged CDC401 conductivity probe with 5 m cable, rugged LDO101 LDO probe with 5 m cable.
8505500	Rugged Field Case for two probes with 5 m cables , includes: Empty case and insert for meter and probe storage; (4) Containers for sample collection; 500 mL Wash Bottle.
8505501	Rugged Field Case for three probes with 5 m cables , includes same accessories as case 8505500.



Visit: www.hach.com/metersselect for more kits.



sensION+ Benchtop Meter & Probe Kits

- *sensION+ Benchtop meters are available in popular packaged configurations*
- *Choose from basic kits or advanced kits for your lab testing needs*
- *Unique design developed as a complete workstation including integrated stirrer, probe stand, calibration flasks, and compartments for essential lab work*
- *All benchtop kits include: workstation with integrated stirrer, buffers, standards, storage solutions, calibration flasks, and accessories for quick start up*



Prod. No.	Description
LPV2010T.97.002	Basic pH (general) Benchtop Kit sensION+ PH3 meter with universal 5010T pH and temperature electrode. For general aqueous applications.
LPV2011T.97.002	Advanced pH (dirty samples) Benchtop Kit sensION+ PH3 meter with open junction 5011T pH and temperature electrode. For high solid content and/or viscous media samples.
LPV2014T.97.002	Advanced pH (high performance) Benchtop Kit sensION+ PH3 meter with dual junction 5014T pH and temperature electrode. For sulfurs, reducing sugars or media that reacts with Ag ⁺ ions.
LPV2021T.97.002	Advanced pH (difficult samples) Benchtop Kit sensION+ PH3 meter with clog-free 5021T pH and temperature electrode. For low ionic strength, colloidal, emulsions and cream samples.
LPV2110T.97.002	Basic pH (general) Benchtop Kit sensION+ PH31 GLP meter with universal 5010T pH and temperature electrode. For general aqueous applications.
LPV2111T.97.002	Advanced pH (general) Benchtop Kit sensION+ PH31 GLP meter with open junction 5011T pH and temperature electrode. For high solid content and/or viscous media samples.
LPV2114T.97.002	Advanced pH (high performance) Benchtop Kit sensION+ PH31 GLP meter with dual junction 5014T pH and temperature electrode. For sulfurs, reducing sugars or media that reacts with Ag ⁺ ions.
LPV2121T.97.002	Advanced pH (difficult samples) Benchtop Kit sensION+ PH31 GLP meter with clog-free 5021T pH and temperature electrode. For low ionic strength, colloidal, emulsions and cream samples.
LPV2210T.97.002	Basic pH (general) Benchtop Kit sensION+ MM340 pH & ISE GLP meter with universal 5010T pH and temperature electrode. For general aqueous applications.
LPV2211T.97.002	Advanced pH (dirty samples) Benchtop Kit sensION+ MM340 pH & ISE meter with open junction 5011T pH and temperature electrode. For high solid content and/or viscous media samples.
LPV2214T.97.002	Advanced pH (high performance) Benchtop Kit sensION+ MM340 pH & ISE GLP meter with dual junction 5014T pH and temperature electrode. For sulfurs, reducing sugars or media that reacts with Ag ⁺ ions.
LPV2221T.97.002	Advanced pH (difficult samples) Benchtop Kit sensION+ MM340 pH & ISE GLP meter with clog-free 5021T pH and temperature electrode. For low ionic strength, colloidal, emulsions and cream samples.
LPV3070.97.0002	Basic Conductivity Benchtop Kit sensION+ EC7 meter with universal 5070 conductivity and temperature cell. For general aqueous applications.
LPV3170.97.0002	Advanced Conductivity Benchtop Kit sensION+ EC71 GLP meter with universal 5070 conductivity and temperature cell. For general aqueous applications.
LPV4140.97.0002	Advanced pH (high performance) & Conductivity Benchtop Kit sensION+ MM374 pH, conductivity & ISE GLP meter with dual junction 5014 pH and universal 5070 conductivity with temperature cell. For sulfurs, reducing sugars or media that reacts with Ag ⁺ ions.

Visit: www.hach.com/meterselect for more kits.

sensION+ Portable Meter & Probe Field Kits

- *sensION+ meters are available in popular packaged configurations*
- *Choose from basic, advanced, or multi-sensor kits for your field testing needs*
- *Specialized field carrying case acts as a portable laboratory*
- *All field kits include: field carrying case, buffers, standards, storage solutions, calibration tubes, and accessories for quick start up*

Prod. No.	Description
LPV2550T.97.002	Basic pH (general) Field Kit sensION+ PH1 meter with universal 5050T pH and temperature electrode. For general aqueous applications.
LPV2551T.97.002	Advanced pH (dirty samples) Field Kit sensION+ PH1 meter with open junction 5051T pH and temperature electrode. For high solid content and/or viscous media samples.
LPV2552T.97.002	Advanced pH (difficult samples) Field Kit sensION+ PH1 meter with high contact 5052T pH and temperature electrode. For low ionic strength, colloidal, emulsions and cream samples.
LPV2555.97.0002	Basic ORP Field Kit sensION+ PH1 meter with 5055 ORP electrode. For chemical waste treatment, galvanic baths and general aqueous applications.
LPV3560.97.0002	Basic Conductivity Field Kit sensION+ EC5 meter with universal 5060 conductivity and temperature cell. For general aqueous applications.
LPV3562.97.0002	Advanced Conductivity Field Kit sensION+ EC5 meter with robust, Titanium 5062 conductivity and temperature cell. For difficult media applications.
LPV4551.97.0002	Basic Dissolved Oxygen Field Kit sensION+ DO6 meter with robust, polarographic 5120 DO and temperature probe. For general aqueous applications.
LPV2645.97.0002	Advanced pH & ORP Multi-sensor Field Kit sensION+ MM110 meter with 5045 pH, ORP and temperature multi-sensor. For general aqueous applications.
LPV4059.97.0002	Advanced pH and Conductivity Multi-sensor Field Kit sensION+ MM150 meter with 5059 pH, conductivity and temperature multi-sensor. For agriculture and general aqueous applications.
LPV4048.97.0002	Advanced pH, Conductivity & ORP Multi-sensor Field Kit sensION+ MM150 meter with 5048 pH, conductivity, ORP and temperature multi-sensor. For waste treatment and general aqueous applications.



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H-Series Bundles



Prod. No.	Description
H260G-BNDL	H260G meter with PH77-SS ISFET pH Probe, USB Cord, AC Adapter, and SmartLogger II Software, PLUS consumables.
H260GB-BNDL	H260G Bluetooth meter with PH77-SS ISFET pH Probe, Calibrating Buffer Kit, USB Cord, AC Adapter, and SmartLogger II Software, PLUS consumables.
H270G-BNDL	H270G meter with PH77-SS ISFET pH Probe, CDW97-KP5 Conductivity Probe, USB Cord, AC Adapter, and SmartLogger II Software, PLUS consumables.

Prod. No.	Description
H270GB-BNDL	H270G Bluetooth meter with PH77-SS ISFET pH Probe, CDW97-KP5 Conductivity Probe, Calibrating Buffer Kit, USB Cord, AC Adapter, and SmartLogger II Software, PLUS consumables.
H280G-BNDL	H280G meter with PH77-SS ISFET pH Probe, CDW97-KP5 Conductivity Probe, DO50-GS Dissolved Oxygen Probe, USB Cord, AC Adapter, and SmartLogger II Software, PLUS consumables.
H280GB-BNDL	H280G Bluetooth meter with PH77-SS ISFET pH Probe, CDW97-KP5 Conductivity Probe, DO50-GS Dissolved Oxygen, USB Cord, AC Adapter, SmartLogger II Software, PLUS consumables.
H160-BNDL	H160-77 Meter & PHW77-SS pH Probe; Field Case & Calibration Kit; Rubber Holster, PLUS consumables.
H160G-BNDL	H160G Bluetooth Meter, PHW77-SS ISFET Probe, Field Carrying Case & Calibration Kit, Rubber Holster, and SmartLogger II Software, PLUS consumables.
H170-BNDL	H170 Meter, PHW77-SS pH Probe & CDW97-KP5 Conductivity Probe; Field Case & Calibration/Standards Kit, and Rubber Holster, PLUS consumables.
H170G-BNDL	H170G Bluetooth Meter, PHW77-SS pH Probe, CDW97-KP5 Conductivity, Field Case & Calibration/Standards Kit, Rubber Holster, and SmartLogger II Software, PLUS consumables.

Visit: www.hach.com/metersselect for more bundles.

MP Meters Packages



Prod. No.	Description
HMP6EP	MP-6 Essentials Package MP-6 portable meter with hardsided case and 50 mL NaCl, KCl, 442™ (™ of Myron L Company), and pH buffer standard solutions.
HMP6EPD	MP-6 Essentials Package with MP-Dock MP-6 portable meter with MP-Dock computer interface, hardsided case and 50 mL NaCl, KCl, 442, and pH buffer standard solutions.
HMP4EP	MP-4 Essentials Package MP-4 portable meter with hardsided case and 50 mL NaCl, KCl, and 442 standard solutions.
HMP4EPD	MP-4 Essentials Package with MP-Dock MP-4 portable meter with MP-Dock computer interface, hardsided case and 50 mL NaCl, KCl, and 442 standard solutions.
HMP6PEP	MP-6p Essentials Package MP-6p portable meter with hardsided case and 50 mL NaCl, KCl, 442, and pH buffer standard solutions.
HMP6PEPD	MP-6p Essentials Package with MP-Dock MP-6p portable meter with MP-Dock computer interface, hardsided case and 50 mL NaCl, KCl, 442, and pH buffer standard solutions.

Visit: www.hach.com/metersselect for more packages.

HQd Meter & Probe Accessories

Meter Stand

Perfect for use in the laboratory or other applications where hands-free meter operation is desired. Black molded plastic is durable and easy to clean.

Prod. No.
4754900



Protective Glove

Provides added impact protection that field use requires. Wrist and neck straps keep the meter secure. Two probe holders (not included in kit) can slide onto glove.

Prod. No.
5828700



Field Meter Protective Caps (for use with Protective Glove)

Prod. No.
9345200



Field Kit

Includes protective glove and 5 120 mL sample cups. Carry your HQd system anywhere. Custom inserts organize and securely position your meter and probes.

NOTE: Field Kit is included with HQ40d meter systems.

Prod. No.
5825800

Probe Stand for Hach IntelliCAL Probes

Holds up to three probes simultaneously for hands-free operation.

Prod. No.
8508850



Probe Holder (Standard IntelliCAL Probes Only)

For use with the Protective Glove. Simply wrap 1- or 3-meter cables around the holder and slide probe into protective sheath. Protective Glove can hold one or two Probe Holders.

Prod. No.
5829400



Replacement Stirrer Assembly for IntelliCAL LBOD Probe

Prod. No.
5850800



Color Coded Probe Clips

Clip a color-coded band to each end of your probe cable for identification. Ten clips of five different colors per package.



NOTE: One package of clips included with each probe.

Prod. No.
5818400

Replacement Shroud Kit for Rugged Probes

Includes protective bell and locking ring. The rugged shroud absorbs the impact from rough wear and tear.

Prod. No.
5825900

Replacement LDO Sensor Cap

Includes i-button™ and sensor cap.

Prod. No.
5811200



Replacement LBOD Sensor Cap

Prod. No.
5838000



Replacement Membranes for IntelliCAL ISENH3181 Ammonia ISE

Pack of 3 replacement membrane modules designed for the IntelliCAL ISENH3181 Ammonia ISE.

Prod. No.
5812711

HQd Meter USB and AC Power Adapter Kit

Provides A/C power in the lab. The USB adapter can be used to transfer data from the meter to a PC, memory stick, or printer.

NOTE: Meter will remain water-proof after using the A/C power adapter. Included with HQ40d meter systems.

Prod. No.
5826300
5834100

Description

USB and AC Power Adapter Kit, 115V
USB and AC Power Adapter Kit, 230V



Printer

Prod. No.
2960100

Description

Citizen PD-24 Printer
Package includes printer, universal power supply, 115V North American power cord, RS-232 cable, gender adapter, USB cable, battery pack, and one roll of thermal paper.
Printer Paper for PD-24, Thermal 5/pk



sensION+ Accessories

Prod. No.	Description
LZW8201.99	Thermal printer, RS 232, for sensION+ benchtop
LZW9117.99	Thermal paper for printer LZW8201.99, bag with 5 rolls
LZW8200.99	Dot-impact printer, RS 232, for sensION+ instruments
LZW9000.99	Standard paper for printer LZW8200, bag with 10 rolls.
LZW9001.99	Ribbon for printer LZW8200.99, 3 units.
LZW9135.99	RS232 cable, for sensION+ benchtop instruments
LZW9135USB.99	RS232 cable for sensION+ benchtop, with USB adapter
LZW9319.99	Magnetic stirrer with sensor holder, for sensION MM benchtop
LZW9267.99	Holder and clamp for one sensor, for portable sensION+
LZW9137.97	3x10 mL printed tubes, for portable pH calibration, US
LZW9138.99	3x10 mL printed tubes, for portable conductivity calibration

Prod. No.	Description
LZW5125.99	Spare membrane for D.O. electrode LZW5120
LZW5126.99	Protector-calibration flask for D.O. electrode LZW5120
LZW9320.99	One-sensor holder, for sensION+ benchtop instruments
LZW9321.99	Three-sensor holder, for sensION+ benchtop instruments
LZW9110.97	3x50 mL printed flasks for benchtop pH calibration, US
LZW9111.99	3x50 mL printed flasks for benchtop conductivity calibration
LZW9155.99	Holder and clamp for three sensors, sensION+
LZW9118.99	Pyrex glass chamber, continuous flow measurements, sensION+
LZW9161.99	PP protector, electrode storage, sensION+
LZW9162.99	PP protector, for measurement, sensION+
LZW8997.99	Hach LabCom Easy Software, sensION+, GLP
LZW8999.99	Hach LabCom Software, sensION+, GLP

H-Series Accessories



*Universal
Probe Stand*

Prod. No.	Description
00130Q	Carrying Case Hand Held, Blk
DO50-CAP	Easy-to-thread-on cap with a pre-installed membrane
DO50-KIT	Includes the DO50-CAP plus a small bottle of electrolyte and a syringe to add the electrolyte to the sensor. There is enough electrolyte to refill 3 caps.
DOC082.98.80062	SmartLogger II Software CD
8508850	Universal probe stand for standard electrode sizes. Also supports Hach IntelliCAL and sensION+ probes.
9316900	Replacement Reference Electrode for H130, H135 & H138
RF01-01	Replaceable Reference Electrode for miniLab Models

MP Meters Accessories



*MP-Dock
Computer Interface
Product No. HMPDOCK
(meter not included)*

Prod. No.	Description
HMPCASE	Hardsided Instrument Case Hardsided case with insert for MP meter, six 50 mL standard solutions, and MP-Dock.
HMPDOCK	MP-Dock Computer Interface For use with all MP meters. This USB powered device allows data transfer from the meter to a computer. Includes MP DataLink software application.
HMPSENS	Replacement pH/ORP Sensor Replacement pH/ORP sensor for MP-6 and MP-6p meters.

pH Buffers & Standard Solutions

pH Calibration Buffers

Hach standard calibration buffers are available in convenient, unit-dose powder pillows or color-coded liquids. Powder pillows assure freshness and eliminate the possibility of contamination. Recommended for automatic calibration. Simply open the pillow and add the contents to 50 mL of deionized or demineralized water. Both liquid and powder buffers assure accuracy (± 0.02 pH units) and are NIST traceable.

pH Buffer Pillows

Buffers with pH values of 4.01, 7.00, and 10.01 are color-coded for added convenience. All carry the DOT code \emptyset NR and are for 50-mL solution volumes. pH is ± 0.02 at 25°C.

pH	Quantity	Prod. No.
Color-Coded		
4.01 (Red)	15	2226995
	50	2226966
	250	2226964
7.00 (Yellow)	15	2227095
	50	2227066
	250	2227064
10.01 (Blue)	15	2227195
	50	2227166
	250	2227164
4.01 (Red) 7.00 (Yellow)	10 of each	2299264
Colorless		
6.00	50	1405566
6.86	15	1409895
8.00	15	1407995
9.00	50	1410766
pH Storage Solution Pillows	20	2657364

pH Buffer Solutions

pH is ± 0.02 at 25°C.

Item	Unit	Prod. No.
pH 4.01 Color-Coded Red (NIST)		
	15 mL	2283436 NEW
	50 mL	2283426 NEW
	500 mL	2283449
	4 L	2283456
	20 L	2283461
pH 7.00 Color-Coded Yellow (NIST)		
	15 mL	2283536 NEW
	50 mL	2283526 NEW
	500 mL	2283549
	4 L	2283556
	20 L	2283561
pH 10.01 Color-Coded Blue (NIST)		
	15 mL	2283636 NEW
	50 mL	2283626 NEW
	500 mL	2283649
	4 L	2283656
	20 L	2283661
pH 4.01 Colorless (NIST)		
	15 mL	1222336
	500 mL	1222349
	4 L	1222356
pH 7.00 Colorless (NIST)		
	500 mL	1222249
	4 L	1222256
pH 10.01 Colorless (NIST)		
	500 mL	1222149
	4 L	1222156

Save when you purchase pH buffer 3-packs!

Prod. No.	Description
20 L SIZE 3-PACK 2507300	Includes: 2283661 10.01 (blue) NIST 2283561 7.00 (yellow) NIST 2283461 4.01 (red) NIST
500 mL SIZE 3-PACK 2947600	Includes: 2283649 10.01 (blue) NIST 2283549 7.00 (yellow) NIST 2283449 4.01 (red) NIST
4 L SIZE 3-PACK 2507200	Includes: 2283656 10.01 (blue) NIST 2283556 7.00 (yellow) NIST 2283456 4.01 (red) NIST

Singlet™ Solution Packs

Singlet single-use standard solutions are ideal for on-site analysis, eliminating the need to prepare standardized buffer solutions for pH meter calibration. You can have fresh pH buffer solutions without having to purchase and carry deionized or demineralized water. The convenient foil-pouch packaging maintains freshness, and keeps the solutions contaminant-free and ready to travel with you anywhere.

Item	Quantity	Prod. No.
pH 7.00 and pH 10.01 Buffer Solution	pk/10 of ea.	2769820
pH 4.01 and pH 7.00 Buffer Solution	pk/10 of ea.	2769920
pH 4.01 Buffer Solution	pk/20	2770020
pH 7.00 Buffer Solution	pk/20	2770120
pH 10.01 Buffer Solution	pk/20	2770220



Visit:
www.hach.com/standardsguide
 for additional standards

Smart

HQd Meters & IntelliCAL Probes



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Probeless

MP Meters



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Lit. No. 2692 Rev 3
H11 Printed in U.S.A.
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