


exact® pH+
SMART METER SYSTEM
with  Bluetooth®
SMART

DIGITAL ACCURACY WITH EZ PH PROCEDURE



**SMART DIGITAL
WATER TESTING**
SMART GUIDE

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WELCOME TO YOUR NEW EXACT® pH+ SMART METER SYSTEM

Thank you for your eXact® pH+ purchase! This guide will quickly walk you through the technical details of your new pH+. You are on your way to smart digital water testing! The benefits of purchasing an eXact pH+ with Bluetooth® SMART is the ability to connect your photometer to a smartphone or tablet and use our specially designed app to easily save, send, and share your test results. The eXact pH+ meter is IP-67 rated for water and dust protection. Therefore, it is able to withstand being submerged in 1m of water for up to 30 minutes.

Please read this entire manual before unpacking, setting up, or operating this equipment. Pay attention to all precaution statements. Failure to do so could result in damage to the equipment. Make sure that the safeguards provided by this equipment are not impaired. Use this equipment according to the specified instructions in this manual.

WHAT YOU WILL NEED TO GET STARTED

- Four (4) AAA batteries
- Clean Water (distilled, deionized, purified bottled water)
- Soft paper towel for drying probe

SMART METER SYSTEM®

Using eXact iDip® app in combination with the meter completes the eXact® pH+ Smart Meter System.

WARRANTY (2 YEARS)

Registration of your eXact® pH+ must be received within 30 days from date of purchase to activate the warranty. The eXact® meter is warranted to be free from defects in materials and workmanship for a period of two (2) years from the date of purchase by the customer. The replaceable pH and ORP probes are warranted for one (1) year. ITS will repair or replace any part of the product which is deemed to be faulty or otherwise defective. The non-transferable warranty does not cover product damage caused by abuse or improper use. If the meter is faulty or otherwise defective contact ITS by phone (+1-803-329-9712 Ext. 0) or email (its@sensafe.com) to describe the problem and obtain a return authorization form before returning the meter to ITS. Damage caused by improper packing of the meter for return shipment to ITS will not be covered by the warranty. Customer is responsible for shipping charges to ITS. ITS pays postage when meter is returned to customer. A maximum processing fee of \$100 will be charged for repair or replacement of non-registered meters and damages not covered by this warranty. Registration is available over the phone (+1-803-329-9712 Ext. 0) or on-line at <http://www.sensafe.com/micro/warranty/> (Personal data is kept confidential).

KIT	CONTAINS	PART NUMBER
eExact® pH Multi Kit	eExact® pH+ meter (with pH probe), four AAA batteries, lanyard, 3M KCl storage solution, two pH calibration bottles, two pH calibration solutions, two conductivity calibration bottles, pH+ sample collection bottle	486301
eExact® ORP Kit	eExact® pH+ meter (with ORP probe), four AAA batteries, lanyard, 3M KCl storage solution, pH+ sample collection bottle	486302
eExact® Master Kit with ORP and pH	eExact® pH+ meter (with pH probe), ORP probe, four AAA batteries, lanyard, 3M KCl storage solution, two pH calibration bottles, two pH calibration solutions, one conductivity calibration bottle, two conductivity calibration solutions, pH+ sample collection bottle	486303

GETTING STARTED

If first-time use, or if the meter hasn't been used for a long time, pour about 5mL of 3M KCL storage solution into the probe cap (about 1/5 of the cap) and soak probe for a minimum of 15 minutes. Rinse the probe and place into the storage solution.

When not in use, store the pH probe in a pH 4.00 buffer solution. Use enough to completely immerse the pH glass bulb. If the probe was stored dry, soak in pH 4.00 buffer for at least 4 hours to restore the probe's sensitivity. Soak the probe for 12 hours to achieve maximum accuracy.

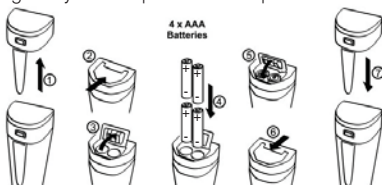
If the unit is stored dry, the probe will not be permanently damaged, but will temporarily lose its stability. Stability can be restored by soaking the probe in the supplied 3M KCl storage solution (one 10ml bottle of storage solution comes with the kit). If this solution becomes cloudy replace it as soon as possible.

*** DO NOT** use a different brand of storage solution. Using a different chemical may, potentially, cause the probe to function poorly (also void the warranty).

INSTALL "AAA" BATTERIES

1. Pull up the battery cover with clip.
2. Slide the battery cap in the direction of arrow.
3. Open the battery cap
4. Insert the batteries (ALL POSITIVE SIDES FACING UP)
5. Close the battery cap
6. Slide and lock the battery cap in the direction of arrow
7. Replace the battery cover with clip. Be sure to push all the way down.

Waterproof design may be compromised if cap is not fitted correctly.



YOUR NEW EXACT PH+ IS IDEAL FOR TESTING AND MAINTAINING YOUR DRINKING WATER.

BATTERY COVER WITH CLIP

Protects the batteries from water damage

LCD SCREEN

Displays results and test type

ON/READ BUTTON

Turn on/off meter and backlight

MENU BUTTON

Cycles through available tests

CALIBRATION BUTTON

Performs calibration and navigates parameter settings

PROBE

Install/replace probe here

PROBE/STORAGE CAP

Protects the sensors while not in use.

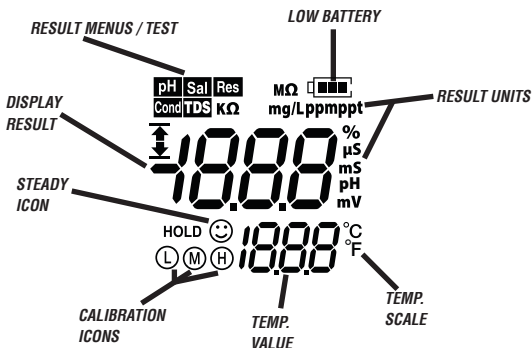
PROBE COLLAR

Holds the probe in place. Uncrews to allow probe replacement.



waterproof IP67

Protected against the effects of immersion in water to depth of 1m.



Buffers for calibration should be based on the measurement range.

Follow the calibration procedure properly.

Be sure to remove air bubbles from pH glass bulb for accurate measurements.

Store the meter and all test materials out of direct sunlight, heat, and away from chemical storage areas.

Minimize exposure of meter and calibration solutions to heat above 100°F (38°C).

Dry the outside of the meter when testing is complete or before storage of the meter.

Pour pH 4.0 buffer solution up to the "FILL" line of the storage cap. Always store the pH probe in clean 4.00 pH buffer solution.

Do not store the pH probe in a distilled or deionized water. This will cause permanent damage to the probe.

Always fill the sample collection bottle with enough sample to completely immerse the probe.

Rinse pH probe properly before putting in storage solution.

The meter has an automatic shut-off after 8 minutes of idle time.

This meter performs best in pool and typical tap water and does not give reliable readings in distilled or deionized water.

Remove batteries when meter is not used for more than a month (Warranty Requirement).

Do not touch or rub the pH glass bulb.

To avoid cross-contamination, rinse the probe properly with clean water in between measurements.

To clean the **ORP sensor**, dip the probe into 0.1 mol/L dilute hydrochloric acid for 30 minutes; clean the platinum surface with dishwashing liquid; or use plain white toothpaste to gently clean the platinum surface. Then, rinse with clean water and soak for 6 hours in the KCl storage solution.



SAFETY INFORMATION

The manufacturer is not responsible for any damages due to misapplication of this product including, but not limited to, direct, indirect, incidental and consequential damages, and disclaims such damages to the full extent permitted under applicable law. The user is solely responsible to identify critical application risks and install appropriate safeguards to protect processes during a possible equipment malfunction. **Caution:** The pH probe has a glass bulb, do not immerse directly in pool.

PROBE REPLACEMENT






1. Turn off the meter.
2. Unscrew the probe collar by turning counter-clockwise.
3. Gently pull downward to disconnect the probe from the meter. Carefully plug in the replacement probe (pay attention to the probe orientation when plugging into the meter).
4. Put back the probe collar and tighten firmly to secure the probe to the meter (do not overtighten).







Listed below are possible situations that may arise while testing. Please contact one of our customer service representatives, or watch our video online, if you require assistance.

Subject	Cause	Solution
"ER1" on pH+ LCD (DISPLAY)	Wrong calibration solution or the range of calibration solution exceeds standards	Check if calibration solution is correct (1st pH calibration must be pH 7.00) ¹
		Check if probe is damaged
		Check if there is any air bubble in the pH glass bulb ²
"ER2" on pH+ LCD (DISPLAY)	 is pressed before measurement is stable (😊 comes up and stays)	Wait for the smile icon to come up and stay, then press 

- ¹ The 1st point calibration must be in pH 7.00 buffer. Perform the 2nd point calibration (pH 4.00) immediately after the 1st point. Do NOT turn off the meter before you conduct the 2nd point calibration. If the meter is turned off after the 1st point calibration the calibration process must be repeated. Calibrating directly in pH 4.00 after turning the meter off and back on will cause Er1.
- ² If you find air bubbles in the pH glass bulb, shake the probe a few times in an upward/downward motion to remove the bubbles. If air bubbles are attached to the outside of the glass bulb, swirl the probe in the solution to remove them. Air bubbles in the glass bulb will cause unstable measurements.




ICONS AND SPECIAL FUNCTIONS



1. Calibration points indication:
 (4.00pH)  (7.00pH)  (10.00pH)
2. Stable Measurement: 
3. Reading value Auto Lock: **HOLD**
4. Self-Diagnostic Information: **Er1, Er2**
5. Low-Battery warning:  **flashes, replace battery**
6. Two-Color backlight:
 Blue—**Measurement Mode**;
 Green—**Calibration Mode**;
7. Auto. Power off in 8 minutes if no operation.

When pH⁺ meter is turned off, press and hold  button to enter Parameter Setting. Then, press  to cycle through P1-P2...P8. Press , parameter starts to flash. Press  to choose parameter. Next, press  to confirm. Lastly, press and hold  to turn off meter.

Symbol	Parameter Setting Contents	Code	Factory Default
P1	Select pH buffer standards	USA - NIST	USA
P2	Select automatic lock	Off - On	Off
P3	Select backlight	Off - 1 - On	1 (auto)
P4	Temperature compensation factor	0.00 - 4.00%	2.00%
P5	TDS factor	0.40 - 1.00	0.71
P6	Salinity unit	ppt - g/L	ppt
P7	Select temperature unit	°C - °F	°F
P8	Back to factory default	No - Yes	No

P1 Select standard pH buffer solution: There are two options for standard buffer solutions, the **USA** series or the **NIST** series. Refer to following chart:

Icons		pH Standard Buffer Solution Series	
		USA Series (pH)	NIST Series (pH)
Three-point Calibration		1.68 and 4.00	1.68 and 4.01
		7.00	6.86
		10.01 and 12.45	9.18 and 12.45

- P2** Automatic lock: "ON" is preferred
Select "**On**" to activate the auto-lock function. When the reading is stable for more than 10 seconds, the tester will lock the value automatically, and the **HOLD** icon will display on the LCD. Press the  key to cancel auto hold. When auto-lock is off, take the reading when the number on screen is stable for 10 seconds while the stable icon  is present.
- P3** Backlight: "1" is preferred
"**Off**"-turn off backlight
"**On**"-turn on backlight
"**1**"- backlight will last for 1 minute
- P4** Temperature Compensation Factor: "**2.00%**" is default
See chart on [page 16](#) for examples of temperature compensation factors for various solutions.
- P5** TDS Factor: "**0.71**" is default
This factor can be modified for the different types of minerals and salts dissolved in the water sample.
- P6** Salinity Unit: "**ppt**" is default
Can be changed to "**mg/L**" by preference.
1,000 mg/L = 1 ppt
- P7** Temperature Scale: "**°C**" is default
Can be changed to "**°F**" by preference.
- P8** Factory default setting:
Select "Yes" to reset instrument calibration to the initial theoretical value (pH value in zero potential is 7.00, slope is 100%). This function can be used when the instrument does not work well in calibration or measurement. Calibrate and measure again after returning the instrument to factory default status.


10 PH CALIBRATION PROCEDURE

Things needed in addition to what's in the kit:

A clean plastic cup, clean water (distilled, deionized, or purified bottled water) for rinsing (16oz), and soft paper towels for drying the probe. Ensure **pH probe** is securely installed (see image at right). If not, see [page 6](#) for Probe Replacement.



1 POWER ON METER

Press the  button to turn on the meter.



2 RINSE PH PROBE

Remove Probe/Storage Cap and rinse the pH probe with clean water and blot pH probe with soft paper towel or cloth to remove excess water (**never rub or touch the pH glass bulb**).

3 SELECT MENU

Press and re-press the  button to select the pH test parameter.



4 1-POINT, 2-POINT CALIBRATION



Pour 7.00 pH and 4.00 pH calibration solutions into separate calibration bottles. Pour enough to completely immerse the sensors into the solution.

5 ENTER CALIBRATION MODE

Press and hold the  button to enter calibration mode (press  to exit).

6

RUN 1ST CALIBRATION

Dip the meter in 7.00 pH calibration solution, stir gently, and allow the probe to sit in the solution until a stable reading is reached. When the 😊 stable icon appears on the LCD, press the  key to complete one-point calibration. The meter returns to measurement mode and the  icon will appear at the bottom left of the LCD.

7

RINSE METER SENSORS

Rinse the sensors in clean water and blot dry (**never rub or touch the pH glass bulb**).




8

ENTER CALIBRATION MODE

Press and hold the  button to enter calibration mode (press  to exit).




9

RUN 2ND CALIBRATION

Dip the meter in 4.00 pH calibration solution, stir gently, and allow the probe to sit in the solution until a stable reading is reached. When the 😊 stable icon appears on the LCD, press the  key to complete one-point calibration. The meter returns to measurement mode and the   icons will appear at the bottom left of the LCD.

10

RUN 3RD CALIBRATION (OPTIONAL)

If necessary, rinse the probe in distilled water, blot it dry, enter calibration mode, and then dip the meter in 10.01 pH buffer solution (not supplied in kit and sold separately). Repeat as in step 8 to complete the 3rd point of calibration. The    icons will appear at the bottom left of the LCD.

Things needed in addition to what's in the kit:

Clean sample collection bottle (provided), clean water (distilled, deionized, or purified bottled water) for rinsing (16oz), and soft paper towels for drying the probe. Ensure **pH probe** is securely installed (see image at right). If not, see [page 6](#) for Probe Replacement.



1 RINSE PH PROBE

Remove Probe/Storage Cap and rinse the pH probe with clean water and blot pH probe with soft paper towel or cloth to remove excess water (**never rub or touch the pH glass bulb**).


2 SELECT MENU

Press and re-press the  button until **pH** appears in the top left corner of the display.

3 TEST

Fill Sample Collection Bottle with sample to be tested. Submerge the probe in the sample and stir gently. Then allow to sit in the bottle.

4 READ RESULTS

The  stable icon comes up, rinse the probe with clean water and return it to the included storage solution or to pH 4 buffer. **NOTE:** If using the eXact iDip® app, press the Save Result button at the top of the Bluetooth Test page to store the displayed result.



- The meter will automatically recognize 5 types of pH buffer solution (see USA/NIST series list below). Users can perform 1-point, 2-point (recommended), or 3-point calibration.
- Perform one-point (M) calibration (7.00 buffer) first before proceeding to two-point and three-point calibration.
- Use pH buffers for two-point and three-point calibration as in the table below:

Calibration	USA Series (pH)	NIST Series (pH)	LCD Icon	Recommended Accuracy and Range (pH)
1-point	(1) 7.00	(1) 6.86	(M)	Accuracy ≥ 0.1
2-point	(1) 7.00 (2) 4.00 or 1.68	(1) 6.86 (2) 4.01 or 1.68	(M) (L)	Measurement Range <9.00
	(1) 7.00 (2) 10.01 or 12.45	(1) 6.86 (2) 9.18 or 12.45	(M) (H)	Measurement Range >9.00
3-point	(1) 7.00 (2) 4.00 or 1.68 (3) 10.01 or 12.45	(1) 6.86 (2) 4.01 or 1.68 (3) 9.18 or 12.45	(M) (L) (H)	Custom Measurement Range

- To maintain the accuracy of the pH buffer standards, replace them after five (5) uses. To prevent contamination, NEVER pour used pH Buffer solutions back into the original pH Buffer solution bottles.
- This pH probe was not designed to give accurate readings for distilled or deionized water. There are not enough ions present in these waters for accurate detection.
- When testing purified water like spring water or drinking water, it will take longer for the readings to stabilize (typically 3-5 minutes) because there are low levels of ions for the sensor to detect.
- DO NOT store the pH probe in distilled water. This will cause permanent damage to the probe.
- pH Buffers for calibration should be selected based on the measurement. 2-point (7.00 and 4.00) Calibration is recommended for most applications.
- Avoid cross-contaminating the pH buffers. Rinse the pH probe and blot excess water after each measurement.
- Do not rub or touch the pH glass bulb!

Important Operation Note: the eXact pH⁺ Smart Meter was especially engineered/designed for the nontechnical service person who requires a quick and accurate (within ±0.05) on-site pH measurement. The test methodology, if followed carefully, is this:

Perform 2-point calibration weekly and store pH probe in 4.00 pH Buffer between measurements. During the week of use, each time you power ON eXact pH⁺ meter, the pH should display between 3.97 and 4.03. This verifies the meter is still maintaining calibration. When display is <3.97 or >4.03. discard the solution and pour a fresh pH 4.0 buffer solution and check display again. Remove Probe Storage Cap and set aside with pH 4.00 Buffer solution. Rinse the pH probe with clean water, then proceed to pH measurement. More frequent calibrations may be needed if testing solutions in extreme temperatures or substantial changes in pH such as from 10 to 4.

14 CONDUCTIVITY PROCEDURES

Things needed in addition to what's in the kit:

Clean sample collection bottle (provided), clean water (distilled, deionized, or purified bottled water) for rinsing (16oz), and soft paper towels for drying the probe. Ensure **pH probe** is securely installed (see image at right). If not, see [page 6](#) for Probe Replacement.



CALIBRATION PROCEDURE

1

POWER ON METER

Press the  button to turn on the meter.



2

RINSE METER SENSORS

Rinse the sensors in clean water and blot dry (**never rub or touch the pH glass bulb**).

3

SELECT MENU

Press and re-press the  button to select the conductivity test parameter.



4

CALIBRATION SOLUTION

Pour 1413 μ S/cm and 12.88 mS/cm conductivity calibration solutions into separate calibration bottles. Pour enough to completely immerse the sensors into the solution.



5

ENTER CALIBRATION MODE

Press and hold the  button to enter calibration mode (press  to exit).

6

RUN CALIBRATION

Dip the meter in 1413 $\mu\text{S}/\text{cm}$ calibration solution, stir gently, and allow the probe to sit in the solution until a stable reading is reached. When the 😊 stable icon appears on the LCD, press the  key to complete one-point calibration. The meter returns to measurement mode and the  icon will appear at the bottom left of the LCD.

7

RINSE METER SENSORS

Rinse the sensors in clean water and blot dry (**never rub or touch the pH glass bulb**).

8

VERIFY CALIBRATION

After calibration, dip the meter in 12.88 mS/cm calibration solution. If the value is accurate, it is not necessary to conduct a 2nd point calibration. If it is inaccurate, follow steps 5 to 6 to complete the 2nd point calibration using the 12.88 mS/cm buffer solution.

TEST PROCEDURE

1

RINSE METER SENSORS

Rinse the sensors in clean water and blot dry (**never rub or touch the pH glass bulb**).

2

SELECT MENU

Press and re-press the  button to select until **Cond** appears in the top left corner of the display.


3

TEST

Fill Sample Collection Bottle with sample to be tested. Submerge the probe in the sample and stir gently. Then allow to sit in the bottle.

4

READ RESULTS

Record the readings after the 😊 stable icon comes up. Press  to switch from Conductivity to TDS and Salinity. When finished with readings, rinse the probe with clean water and return it to the included storage solution or to pH 4 buffer. **NOTE:** If using the eXact iDip® app, press the Save Result button at the top of the Bluetooth Test page to store the displayed result.



- The TDS and Salinity measurements are calculated from the conductivity measurements by using conversion factors.
- The meter can recognize 84 μ S, 1413 μ S/cm and 12.88 mS/cm conductivity calibration solutions. The user can conduct 1 to 3 points calibration. Refer to the table below. Usually calibrating the tester with 1413 μ S/cm conductivity buffer solution alone shall meet the testing requirement. However, we recommend choosing a calibration solution close to the expected conductivity of your sample.

Calibration indication icon	Calibration Standards	Measuring Range
(L)	84 μ S/cm	0 - 200 μ S/cm
(M)	1413 μ S/cm	200 - 1999 μ S/cm
(H)	12.88 mS/cm	2 - 20 mS/cm

- The tester has been calibrated before leaving the factory. For best accuracy we recommend testing a conductivity buffer solution before use. If the error is large, then calibration is needed.
- To maintain the accuracy of conductivity calibration solutions, we recommend replacing the solutions after 3 to 5 uses. To prevent contamination, Do NOT pour used calibration solutions back into the original bottles.
- Temperature compensation factor: The default setting of the temperature compensation factor is 2.0%/°C. Users can adjust the factor depending on the solution or experimental data (see table below). Use parameter setting P4 to adjust the factor.

Solution	Temperature compensation factor
NaCl	2.12%/°C
5% NaOH	1.72%/°C
Dilute ammonia	1.88%/°C
10% Hydrochloric acid	1.32%/°C
5% Sulfuric acid	0.96%/°C

- **1000 ppm = 1 ppt** **1000 μ S = 1 mS**
- TDS and conductivity are linearly related; the conversion factor ranges from 0.40-1.00. The factory default setting is 0.71. Salinity and conductivity are also linearly related; the conversion factor is 0.5. The tester only needs to be calibrated in Conductivity mode. After calibration for conductivity, the meter can switch from conductivity to TDS or salinity.
- **Conversion Example:** if conductivity measurement is 1000 μ S/cm, then the default TDS measurement will be 710 ppm (under the default 0.71 conversion factor), and the salinity will be 0.5 ppt.
- Avoid cross-contaminating the conductivity standard solutions. Rinse the sensors and blot dry after every measurement.

Things needed in addition to what's in the kit:

Clean sample collection bottle (provided), clean water (distilled, deionized, or purified bottled water) for rinsing (16oz), and soft paper towels for drying the probe. Ensure **ORP probe** is securely installed (see image at right). If not, see [page 6](#) for Probe Replacement.



Preparation before use:

Pour enough 3M KCl solution into a small cap to cover the sensors. Soak the probe for 3-5 minutes in the solution to activate the sensor. There is no need to activate the sensor if it is used frequently.

1

POWER ON METER

Press the  button to turn on the meter.



2

RINSE ORP PROBE

Rinse the ORP probe in clean water and blot dry with soft paper towel or cloth to remove excess water.

3

SELECT MENU

Press and re-press the  button to select the ORP test parameter (mV unit of measure next to result).


4

TEST

Fill Sample Collection Bottle with sample to be tested. Submerge the probe in the sample and stir gently. Then allow to sit in the bottle.

5

READ RESULTS

Record the readings after the  stable icon comes up. When finished with readings, rinse the probe with distilled water and return it to the included storage solution or to pH 4 buffer. **NOTE:** If using the eXact iDip® app, press the Save Result button at the top of the Bluetooth Test page to store the displayed result.



SMART PHONE COMPATIBILITY

APPLE	SAMSUNG	SONY	MOTOROLA	HTC
iPhone 4s AND UP	Galaxy Ace Style	Xperia E1	Moto E	Desire 610
iPhone SE	Galaxy Alpha	Xperia M2	Moto G	Desire 816
iPod touch 5th AND UP	Galaxy Core II	Xperia T2 Ultra	Moto X	One
	Galaxy Core Prime	Xperia XA		One Max
	Galaxy Express J1	Xperia Z	GOOGLE	One Mini
	Galaxy Express Prime	Xperia Z ULTRA	Nexus 4 AND UP	One Mini 2
	Galaxy Grand 2	Xperia Z1		
	Galaxy Grand Duos	Xperia Z2		
	Galaxy Grand Neo	Xperia Z3	Pixel	MX4
	Galaxy J	Xperia ZL	Pixel V1	MX4 Pro
	Galaxy Mega 6.3	Xperia ZR	Pixel V2	
	Galaxy Mega 2		Pixel XL	OPPO
	Galaxy S3 Neo			A37
LG	Galaxy S4 AND UP		LENOVO	F1S
F70	Galaxy Xcover 3		Vibe X2	R9S
G Pro2	Galaxy Young II Duos		Vibe Z2	
G2 AND UP			Vibe Z2 Pro	XIAOMI
Optimus Exceed 2				Mi Max
Optimus Fuel			ZTE	Mi3
Optimus G (E975)			Nubia X6	Redmi 3
Optimus G Pro			Nubia Z7 Max	Redmi Note (4G)
Optimus L40				
Optimus L65				HUAWEI
Optimus L70		MOTOROLA DROID		Ascend Mate 7
Optimus L80		Maxx		Ascend P7
Optimus L90		Mini		Ascend P8
Optimus Zone 2		Razr HD		Honor 3C (4G)
Volt		Razr HD Maxx		Honor 6
		Razr M		Honor 6 Plus
		Turbo		
		Ultra		

TABLET COMPATIBILITY

APPLE	SAMSUNG	LG	SONY	GOOGLE
iPad (3rd)	Galaxy Note 10.1	G Pad	Xperia Tablet Z	Nexus 7 (2013)
iPad (4th)	Galaxy Note 3 Neo		Xperia Tablet Z2	Nexus 9
iPad Air	Galaxy Note 3 Neo Duos			
iPad Air 2	Galaxy Note 4			
iPad Pro	Galaxy Note 8.0			
iPad Mini	Galaxy Note II			
iPad Mini 2	Galaxy Note II Duos			
iPad Mini Retina	Galaxy Note III			
iPad Mini 4	Galaxy Note III Round			
	Galaxy Note Pro			
	Galaxy Tab 3 V			
	Galaxy Tab 4			
	Galaxy Tab Pro			
	Galaxy Tab S			

This list is current as of June, 2018. To view the most up-to-date list of compatible devices, please visit sensafe.com/idip-compatible-devices.



VIEW INSTRUCTIONAL VIDEO



eXact iDip



BLUETOOTH® SMART TECHNOLOGY

Bluetooth® SMART is a low-power networking standard which uses short radio waves to allow electronic devices to communicate with each other wirelessly. The eXact® pH⁺ comes standard with the latest Bluetooth® 4.0 technology (bluetooth.com/Pages/Bluetooth-Smart.aspx). It is a class 2 device with a wireless working distance of up to 30 feet (10 meters) and a 2.1 Mbps data transfer rate. This allows a seamless transfer of data between a smart device and the eXact® pH⁺.

DOWNLOAD THE APP

Using your Smart Device, download the eXact iDip® app. Download the latest update to ensure you are using the current version with up-to-date features. To see if your smart device is compatible, visit sensafe.com/idip-compatible-devices.

We are constantly improving the eXact iDip® app and welcome your suggestions. Visit exactidip.com or e-mail exactidip@sensafe.com.



eXact iDip



Note: If using an Apple® iPad™, select '**iPhone only app**' when searching from the App Store, or scan the QR code above.

ALLOW ACCESS

Upon opening, and while using the eXact iDip® app, pop-ups will appear that ask for access to different functions of your phone; **Location**, **Contacts**, **Calendar**, and **Cellular Data**. In order to get full functionality of the app, be sure to allow access to all of these features.

MAKING CALLS

The eXact iDip® photometer is not intended for use while talking on your smart phone. Talking during testing may cause the app to shutdown.

USING THE EXACT IDIP® APP

EXACT IDIP® APP OVERVIEW

MENU:

Opens slide-out for easy access to all app features

HOME SCREEN**PROFILE:**

Activate Archiving

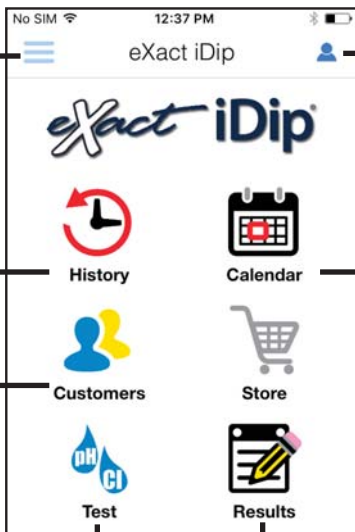
HISTORY:

Accesses saved results which can be sorted, edited, and emailed. Also accesses History Map

CALENDAR:
Displays your schedule/appointments

CUSTOMERS:

Attaches results to people and/or locations from your smart device contacts



TEST:
Initiates water testing

RESULTS:
Accesses temporary results that have not been saved to history

BLUETOOTH DEVICE**TEST RESULT SCREEN**

PHP8554838

TESTING PARAMETER

pH

7.40 pH

TEST RESULT

PARAMETER UNIT OF MEASURE

DOTS INDICATE MULTIPLE UNITS OF MEASURE
(Available for some tests)

NAVIGATING THE APP

The Menu slide-out is available from any screen within the app. The Menu allows you to access any of the app's features with ease.



SETTINGS

CURRENT LOCATION

You can view your current GPS coordinates and/or refresh your current location. In order to take advantage of the GPS feature, make sure to allow eXact iDip® app to access your location.

CONFIGURATION FILES

Refreshing the configuration files can help resolve issues with tests not appearing correctly in the app.

ABOUT

Access the End-User License Agreement and contact information to reach our offices in the USA and Europe from the About section, located in the Menu slide-out. In the About section you can find the version of the app you are running. Be sure to check your smart device's app store for updates and install the latest version before running a test as we are constantly updating and adding more features to the app!

FAQS

Here you will find videos, downloads, links, and answers to the most frequently asked questions.

TEST

You can utilize two different testing methods under Test: Manual Entry or Bluetooth Device.

BLUETOOTH TEST

Tests will be performed with your eXact pH⁺ meter.

MANUAL TEST

This feature allows you to utilize other testing methods and manually enter your results into the app. Begin by selecting **'Test'**, **'Manual Entry'**, and select your desired test. Enter the value obtained. Once finished, tap **'SAVE'** at the top left. If the test you need to enter is not available on the list, tap **'Custom*'**. Enter the type of test that was run, the value obtained, and the unit of measure used. Then, tap **'SAVE'** at the top left (see [page 27](#)).



HISTORY

The **History** stores all your saved test result information and allows you to sort by date, customer name, or test type.



HOW TO SORT BY CUSTOMER

To sort by **Customer** begin by selecting '**History**', then '**Sort by**', '**Customer**'. You can then scroll through your list of customers by name, to find a specific test result.

HOW TO SORT BY DATE

To sort by **Date** begin by selecting '**History**' then '**Sort by**', '**Date**'. You can then scroll through a list of tests performed by date. You can also set a specific date range by selecting '**Date range**'. Then set your **From** and **To** dates.

HOW TO SORT BY TEST

To sort by **Test** begin by selecting '**History**' then '**Sort by**', '**Test**'. You can then scroll through a list of tests sorted in alphabetical order.

HOW TO EMAIL AND SHARE DATA

See [page 29](#) for instructions on how to utilize these features

HOW TO ACCESS HISTORY MAP

The History Map stores GPS locations of testing sites. See [page 30](#) for instructions on how to utilize this feature.

CUSTOMERS

Customers attaches results to people and/or locations in your smart device. In order to fully utilize the features and capabilities of the app, each test result will need to be stored (linked) to a profile. You can add customers in two ways. **1.** By adding from your existing contact list on your smartphone/tablet or **2.** You can create a new contact.



HOW TO ADD EXISTING CONTACTS

To add current contact information already stored on your device, begin by selecting '**Customers**' then '**Add customers from contacts**' (access to Contacts must be allowed on your device).

HOW TO CREATE A NEW CONTACT

To create a new contact, select '**Customers**', tap the '+', then enter all of the customers contact information. Once finished, tap '**Done**'.

NAVIGATING THE EXACT IDIP® APP

CALENDAR

Never miss an appointment! With the app's Calendar feature, you can access your device's calendar directly from the app. View by date range to see past entries or future appointments.



TIP

If no entries are visible in the app, you may need to allow the app to access your calendar. You can do this in the settings and security section of your smartphone/tablet (instructions for each will vary by make/model).

RESULTS

You can view details for tests that have not been saved to History, add notes, or clear recent test history from the Results section.



HOW TO ADD NOTES

To add notes begin by selecting **'Results'** then select the test result you would like to add notes to. Tap inside the blue note section of the Results screen and add your notes. The app will automatically save the information you enter. Tap **'Results'** to return to the previous screen.

HOW TO CLEAR PREVIOUS TEST RESULTS

To clear ALL recent test results, tap **'Results'**, then **'Reset'**. A notification screen will display **'Reset data results'**. "Are you sure you want to reset all the results and notes?" Tap **'Yes'** to clear.

PROFILE

The Profile section of the app can be used to set your preferred units of measure for your tests. Another feature located in the Profile section is Archiving. To access the Profile section of the app, tap the person icon that appears in the top right of the screen throughout the the app.

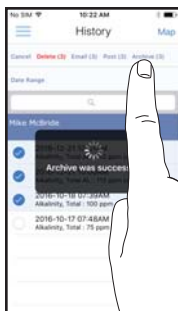
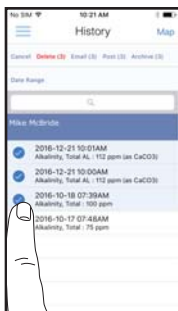


PREFERRED UNITS OF MEASURE

In this section, you are able to select the appropriate unit of measure for your testing needs. To do so, tap Preferred Unit of Measure. Then, scroll until you find the appropriate test parameter (ex. Alkalinity, Total). Lastly, scroll through the various Unit of Measure options until you find the one that works for your needs (ex. dKH). Select that option and tap OK. The test parameter will now show the new preferred unit of measure.

ARCHIVING

After creating an account, the archiving function gives you the opportunity to upload your test results to the Cloud from which they can be accessed at a later date (<https://www.idipdata.com>). This is a helpful feature if you notice that the app is behaving slowly due to data overload. Images taken and saved with test results will also upload to the cloud when archived. After signed in to the archiving section with your new account, you can begin archiving your results from the History page. While on the History page, tap the Select button at the top left, select the tests to archive, and press the Archive button at the top of the screen.



CONNECT TO PH+

For helpful tips regarding test procedures, refer to tips "FOR BEST ACCURACY" on page 5.

1

SELECT CUSTOMER

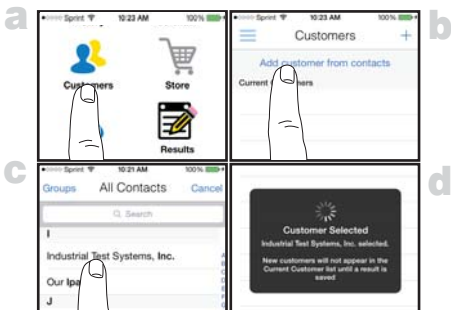
- Select '**Customers**' from the '**Home**' screen.
- Tap '**Add customer from contacts**'.
- Select a contact from your list. After selecting a contact, tap on the customer's address if shown.
Android users: If no address is found, tap "No addresses found"
- Verify customer has been selected.

TIP

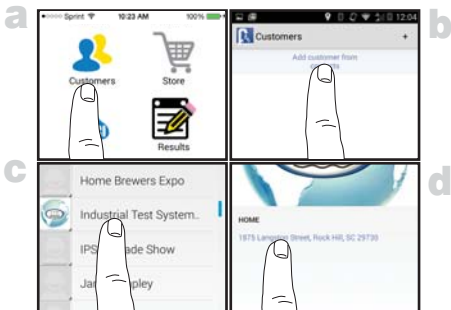
After adding a customer, a test will need to be conducted and a result saved in order for the customer's information to display in the app's customers list.

Note: In order to take full advantage of the GPS and Data Storage features, each test result is linked to a contact.

Apple



Android



TIP

You can also choose to complete this step after testing.

2

POWER ON EXACT® PH+

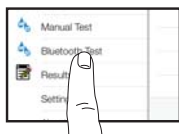
Press the  button to power on the pH+.

CONNECT TO PH⁺

3

SELECT
BLUETOOTH® TEST

Tap the menu slide out '≡' and select 'Bluetooth Test' from the choices shown.



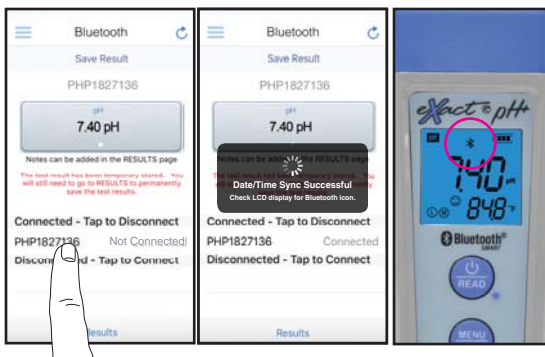
4

CONNECT EXACT® PH⁺

The eXact iDip® app will automatically connect to the most recently used device. If not, select your eXact® pH⁺ from the bottom of the screen. **After connecting, proceed with test procedure for chosen parameter.**

Note: Ensure you always connect your pH⁺ photometer via the Bluetooth® connection within the app. To verify connection look for the Bluetooth icon in the upper right corner of your photometer.

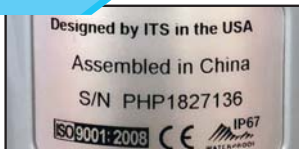
If you experience an issue connecting your device, check to ensure that your smartphone/tablet's Bluetooth® function is turned on and your device is compatible.



TIP

Easily verify your device.

Refer to the back of your pH⁺ to determine the serial number for your device. This will also be the name for the Bluetooth® connection.



Once connected to the pH⁺, you can run tests as usual (see page 10). Test results will be stored in the Results section of the app (see page 28 for next steps).

AUTO-CALCULATED METHODS

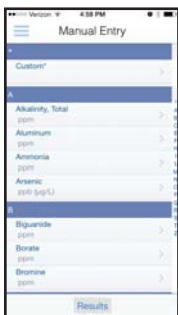
Visit exactph.com for complete test instructions.

LANGELIER SATURATION INDEX (LSI)

Refer to the instructions and perform the tests for TDS (page 15) and pH (page 12). Then, obtain results for Total Alkalinity and Calcium Hardness via alternate means (eXact iDip® photometer - Part No. 486101 or eXact® Micro 20 photometer - Part No. 486700). Lastly, tap Results at the bottom of the page and an LSI value will be calculated and displayed automatically.

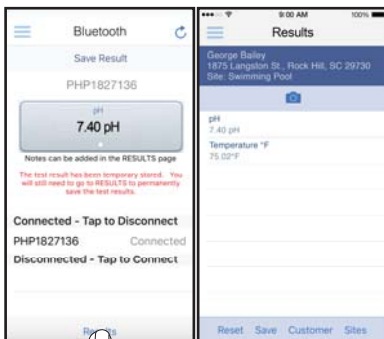
MANUAL ENTRY

This feature allows you to utilize other testing methods and manually enter your results into the app. Begin by selecting 'Test', 'Manual Entry', select your desired test. Enter the value obtained. Once finished, tap 'SAVE' at the top left. If the test you need to enter is not available on the list, tap 'Custom*'. Enter the type of test that was run, the value obtained, and the unit of measure used. Then, tap 'SAVE' at the top left.



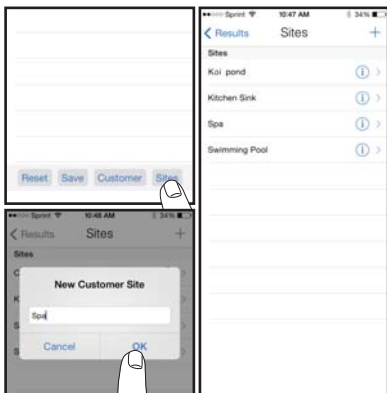
RESULTS

After tests have been performed, tap **'Results'** at the bottom of the screen.



ADD SITES

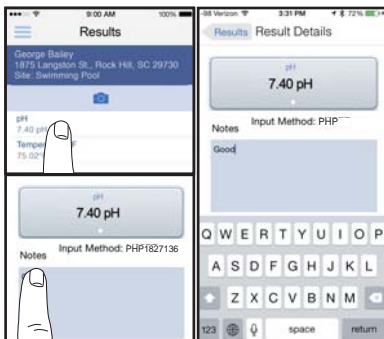
Each set of results can be saved to a customer's **'Site'** (water source at the location). Select a site from the list or to add new sites, tap **'Sites'**, then **'+'**. Enter a **Site** name, tap **'OK'**.



ADD NOTES

To add notes to each test tap the desired test result.

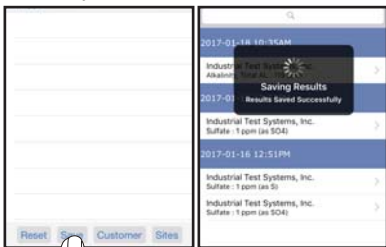
Type notes in the **'Notes'** box, which are automatically saved. Press **'Results'** to return to the results menu.



MANAGING DATA

SAVE TO HISTORY

In **'Results'** screen, tap **'Save'** to store into **'History'**. If this step is omitted, test results will not be permanently saved. A **'Saving Results'** pop-up appears, verifying that your result is now successfully saved.



SEND/SHARE VIA EMAIL

In History you can edit, select, and email your results. To email you can either tap an individual result displayed, or use the **'Select'** button to access multiple data points. Press the blue envelope icon if you tapped an individual result. Select **'Email'** at the top if multiple tests are selected. A .csv (spreadsheet) file will be attached at the bottom of the e-mail.

Individual Result

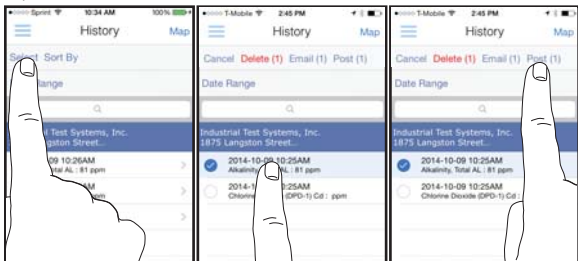
Multiple Results



MANAGING DATA

SEND/SHARE VIA SOCIAL MEDIA

To share your results on social media, use the **'Select'** button and check the result(s) you want to share. Tap **'Post'** at the top and choose whether to share via Facebook or Twitter.

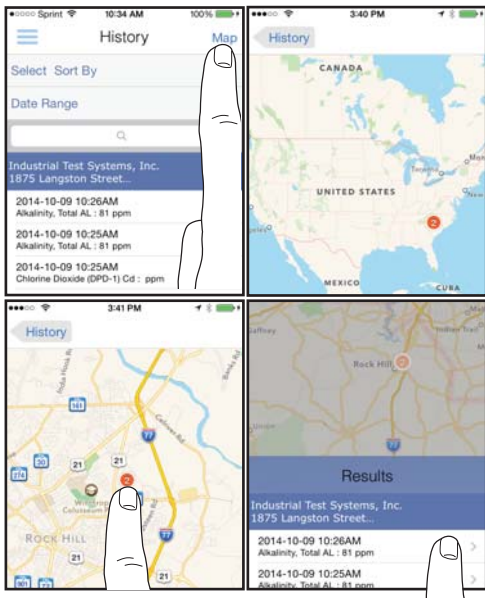


ARCHIVE

See page 22 for details on using the Archiving feature.

USING HISTORY MAP

Tap **'Map'** on History page to access History Map. Double-tap or spread fingers to zoom. Tap on a pin to see results. Tap on a result to bring up the details page.



TIP

Store all your necessary reagents together with your pH⁺ in our convenient carrying case!

KITS

Each kit contains:

- Carrying case
- eXact® pH⁺ meter (#486300)
- Probe cover
- AAA batteries x4
- pH⁺ meter storage solution
- Quick Start Guide(s)



KIT	CONTAINS	PART NUMBER
Multimeter Kit	Conductivity calibration solutions (1413 μ S and 12.88mS), Conductivity calibration bottles x2, pH calibration solutions (7.00pH and 4.00pH), pH calibration bottles x2, Multimeter probe, lanyard, pH ⁺ Sample Collection Bottle (#481410)	486301
ORP Kit	ORP bottle, ORP probe, lanyard, pH ⁺ Sample Collection Bottle (#481410)	486302
Master Kit	Conductivity calibration solutions (1413 μ S & 12.88mS), pH calibration solutions (7.00pH & 4.00pH), calibration bottles x4, Multimeter probe, ORP probe, lanyard, pH ⁺ Sample Collection Bottle (#481410)	486303
eXact iDip® Pool Professional Kit	eXact iDip® photometer, cleaning brush, 1 bottle of 25 tests each: Total Alkalinity, Cyanuric Acid, Free Chlorine (DPD-1), Combined Chlorine (DPD-3), and Calcium Hardness	486101-PP-K
eXact iDip® SmartBrew Professional Kit	eXact iDip® photometer, cleaning brush, 1 bottle of 25 tests each: Total Hardness High, Calcium Hardness, Total Alkalinity, Chloride, and Sulfate	486101-SB3-K

TIP

Order online at exactph.com or call one of our helpful customer service representatives at (800) 861-9712

PROBE REPLACEMENT

Screw off the probe ring, unplug the probe, plug in the new replacement probe (pay attention to the probe's position), and screw on the probe ring. The part numbers for replacement probes compatible with the pH⁺ are:

- PH60-E (Regular pH glass bulb probe)
- PH60S-E (Spear pH probe for solid/semi-solid testing)
- PH60F-E (Flat pH probe for surface testing)
- ORP60-E (ORP probe)
- EC60-E (Conductivity probe)

EXACT® PH+ TEST SPECIFICATIONS

PARAMETER / TEST	RANGE	RESOLUTION	ACCURACY	CALIB POINTS
Conductivity	0 - 200.0 µS	0.1 µS	±1%	1 to 3
	0 - 2000 µS	1 µS		
	0 - 20.0 mS	0.1 mS		
ORP	±1000 mV	1 mV	±0.2%	N/A
pH	0.00 - 14.00 pH	0.01 pH	±0.01 pH	1 to 3
Salinity	0 - 10.00 ppt	N/A	N/A	N/A
TDS	0.1 ppm - 10.00 ppt	TDS Factor 0.40 - 1.00	N/A	N/A
Temperature	32 - 122 °F 0 - 50 °C	0.1 °C	±0.9 °F ±0.5 °C	N/A

Visit us online: exactph.com
for up-to-date product information.



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