



# Introducing **Roam**™

**Fast, accurate, real-time water testing** in the palm of your hand.

## Water testing done with the push of a button

*When we say that Roam™ is easy to use, we mean it. With the e-sens Roam™ you can easily...*

- Test water without the prep work, just fill the sample vial, insert it into the Roam and it will do the rest.
- Sync with your mobile device's Bluetooth for instant data transmission.
- Conduct testing in virtually any location or environment.

## Accuracy is everything

*If you want testing to be done right, the first time, trust e-sens Roam™ to...*

- Improve testing accuracy through greater user-to-user consistency.
- Generate results from 23 different test parameters in a fraction of the time.
- Provide the central office with greater visibility into what's happening in the field.

## Cut down on test time and cost

*We know time and money are important resources. Let Roam™ save you on both by...*

- Eliminating the need for cumbersome reagents and solutions with our simple all-inclusive cartridge.
- Providing multi parameter testing that eliminates the time, cost, and expense of single parameter tests.
- Uses a recyclable cartridge good for 100 tests (each test measures 23 parameters).

## Water Quality Data in Real-time

*When you want instant access to information, anytime, anywhere, Roam™ delivers by giving you...*

- Results that are transmitted to any mobile device and uploaded to your servers for consistent, long-term analytics.
- Instant alerts and notifications in real time with the e-sens mobile app.



Our free mobile app allows you to collect, track and analyze ALL your water quality parameters. Available on iOS or Android. Search: e-sens

# e-sens Roam™ product specs

## Included in Box:

- e-sens Roam™
- USB-C Charging Cable
- Wall charger
- Quick Start Guide

	Base	Cartridge	Complete Unit
Material	Aluminum	Plastic	
Height	1 7/8 in	2 5/8 in	2 5/8 in
Width	3 3/4 in	3 3/4 in	3 3/4 in
Length	6 1/2 in	5 1/2 in	10 in
Weight	1 lb. 10 oz.	12 oz.	2 lb. 6 oz.
Color	Silver	White	

## Physical Properties:

- Control button with RGB status indicator
- USB charging port with LED indicator
- IP66 dust and water resistant
- Sample protecting lid

## Other Properties:

- 1-2 days mixed usage time
- 24.4 Wh (6600 mAh) Li-ion battery
- Supported Operating Systems: iOS, Android
- Bluetooth LE
- 100 tests per cartridge or 30 days of use
- Secure Data uploads

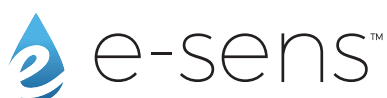
**\*e-sens also offers a simpler 8-parameter test cartridge.**



## Measured Chemical Parameters:

Parameter	Units	Operating Range	Accuracy (Whichever is greater)		MDL
*pH		5.00 - 11.00	+/- 0.1 pH	+/- 0.1 pH	5.00 - 11.00
*ORP	mV	-1000 - 2000 mV	+/- 10%	+/- 10%	+/- 10%
*Conductivity	µS/cm	50 - 2500 µS/cm	+/- 10%	+/- 20 µS/cm	50 µS/cm
*Total Dissolved Solids	mg/L	25 - 1250 mg/L	+/- 10%	+/- 10 mg/L	25 mg/L
*Free Chlorine	mg/L Cl <sub>2</sub>	0.07 - 5.00 mg/L	+/- 10%	+/- 0.10 mg/L	0.07 mg/L
*Monochloramine	mg/L Cl <sub>2</sub>	0.07 - 5.00 mg/L	+/- 10%	+/- 0.10 mg/L	0.07 mg/L
*Total Chlorine	mg/L Cl <sub>2</sub>	0.07 - 5.00 mg/L	+/- 10%	+/- 0.10 mg/L	0.07 mg/L
Ammonium	mg/L N-NH <sub>3</sub>	0.07 - 5.00 mg/L	+/- 10%	+/- 0.20 mg/L	0.07 mg/L
Free Ammonia	mg/L N-NH <sub>3</sub>	0.07 - 5.00 mg/L	+/- 10%	+/- 0.20 mg/L	0.07 mg/L
Chlorine to Ammonia Ratio		0.01 - 100.00	+/- 10%	+/- 0.5	n/a
Nitrification Capacity	mg/L N-NO <sub>3</sub>	0.07 - 10.0 mg/L	+/- 10%	+/- 0.20 mg/L	0.07 mg/L
Calcium Hardness	mg/L CaCO <sub>3</sub>	5-1000 mg/L	+/- 10%	+/- 10 mg/L	5 mg/L
Total Hardness	mg/L CaCO <sub>3</sub>	5-1000 mg/L	+/- 10%	+/- 10 mg/L	5 mg/L
Ionic Calcium	mg/L Ca	3-400 mg/L	+/- 10%	+/- 5 mg/L	3 mg/L
*Sample Temperature	°C	2.0 - 45.0	+/- 1 °C	+/- 1 °C	2.0 °C
Dissolved Carbon Dioxide	mg/L CO <sub>2</sub>	0.05 - 50 mg/L	+/- 10%	+/- 1 mg/L	0.05 mg/L
Total Alkalinity	mg/L CaCO <sub>3</sub>	10 - 325 mg/L	+/-10%	+/- 10 mg/L	10 mg/L
Langelier Saturation Index		-10 - 10.00	0.20	n/a	n/a
Ryzner Stability Index		0 - 12.00	0.20	n/a	n/a
Dissolved Inorganic Carbon	mg/L CO <sub>2</sub>	1 - 200 mg/L	+/- 10%	+/- 1 mg/L	1 mg/L
Aggressive Index		7.00-15.00	+/- 0.20	n/a	7.00

Call 801.839.1071  
or visit [www.e-sens.com](http://www.e-sens.com)



### FCC Compliance Statement

#### Note:

This equipment has been tested and found to comply with the limits for a Class A digital device, pursuant to part 15 of the FCC Rules. These limits are designed to provide reasonable protection against harmful interference when the equipment is operated in a commercial environment. This equipment generates, uses, and can radiate radio frequency energy and, if not installed and used in accordance with the instruction manual, may cause harmful interference to radio communications. Operation of this equipment in a residential area is likely to cause harmful interference in which case the user will be required to correct the interference at his own expense.