# SMART WATER SENSOR
# MANUAL

**Hybrid Printed Sensor**
**Sensor of type :** Water (TDS)
**IC :** SIC4340 NFC Type2/ADC/Iref

Sensor Technology and Mobile Application by LG Electronics

Android     iOS

SMART CARE

**WATER**

SIC4340
NFC TAG

LIQUID METER     DROP HERE ▶

1. DROP THE LIQUID ON THE SENSOR HOLE

2. TAGGING YOUR SMART PHONE ON THE SNSOR

52%

Technology by LG Electronics    **LG**

## RECOMMENDATION

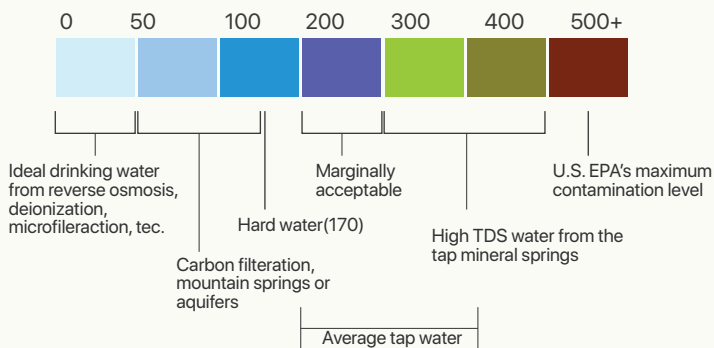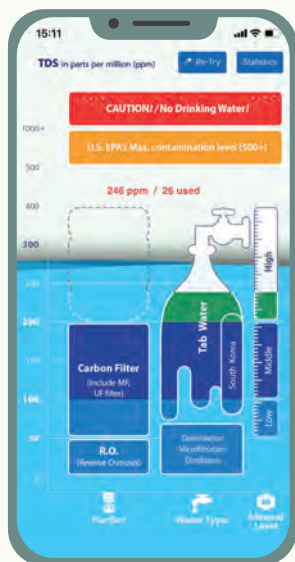**Can be use up to 1000 times**

**Should drop the water to fully cover the indicated circular area**

**Should make the circular area clean and not scratch the surface**

## TDS IN PARTS PER MILLION ˜PPM°

TDS in parts per million (ppm)   Re-Try   Statistics

CAUTION! / No Drinking Water!

U.S. EPA's Max. contamination level (500+)

246 ppm / 26 used

Carbon Filter (Include MF, UF filter)

Tab Water

R.O. (Reverse Osmosis)

Desalination Microfiltration Distillation

Purifier   Waste Type   Mineral Level

| 0 | 50 | 100 | 200 | 300 | 400 | 500+ |
|---|----|-----|-----|-----|-----|------|

Ideal drinking water from reverse osmosis, deionization, microfileraction, tec.

Carbon filteration, mountain springs or aquifers

Hard water(170)

Marginally acceptable

High TDS water from the tap mineral springs

U.S. EPA's maximum contamination level

Average tap water

*The chart values represent national U.S. average.
Actual TDS levels for various regions within the U.S. and in other countries may vary.
Please check for the U.S. EPA's list of National Secondary Drinking Water Regulation.
http://www.epa.gov/

# PRODUCT SPECIFICATION SHEET

| Description | Specification | Remarks |
|---|---|---|
| **A. DIMENSION** | | |
| **Dimension** | 85.60 mm X 53.98 mm | ISO-7810 ID-1 |
| **Thickness** | 0.76 ± 0.1mm | Version 1 (Standard) |
| | | |

| Description | Specification | Remarks |
|---|---|---|
| **B. SENSOR** | **FLEXIBLE MULTILAYERD SENSOR** | |
| **Application** | TDS[1] | |
| **Measurable Liquid** | Tap Water, Bottled Water | Drinking Water |
| **Unit** | ppm | |
| **Measurement Range** | 0 ~ 500 | Drinking Water Regulation by EPA |
| **Resolution** | ±30ppm (0 ~ 300ppm) <br> ±50ppm (300 ~ 500ppm) <br> ±100ppm (> 500ppm) | @20 ~ 35°C <br> **±15ppm (0 ~ 300ppm) / <br> Special contract Order Spec.** |
| **Ref. Solution** | 250ppm Solution | with diluted solution <br> (Sigma-Aldrich Calibration <br> Standard 1,000ppm) |
| **Available No. of Usage** | over 100 times | |
| **Measurement Device** | Smart Phone | with SIC4340 Chip |
| **Connectivity** | NFC | Drinking Water |
| **Available App.** | Liquid Meter | Google Play store Apple App store |

[1] **Total Dissolved Solids**

**Notice.**

1. Do not rub hard on the black layer in the circle. TDS value is not guaranteed if the black layer in the circle is damaged.

2.