



# *The Solution for Smart Water Management*

## *Aqua2000*

SUNTECH ENGINEERING CO., LTD.

[sales@suntech-eng.co.kr](mailto:sales@suntech-eng.co.kr)



# *Company Review*

Smart  
Water City



## Company Outline

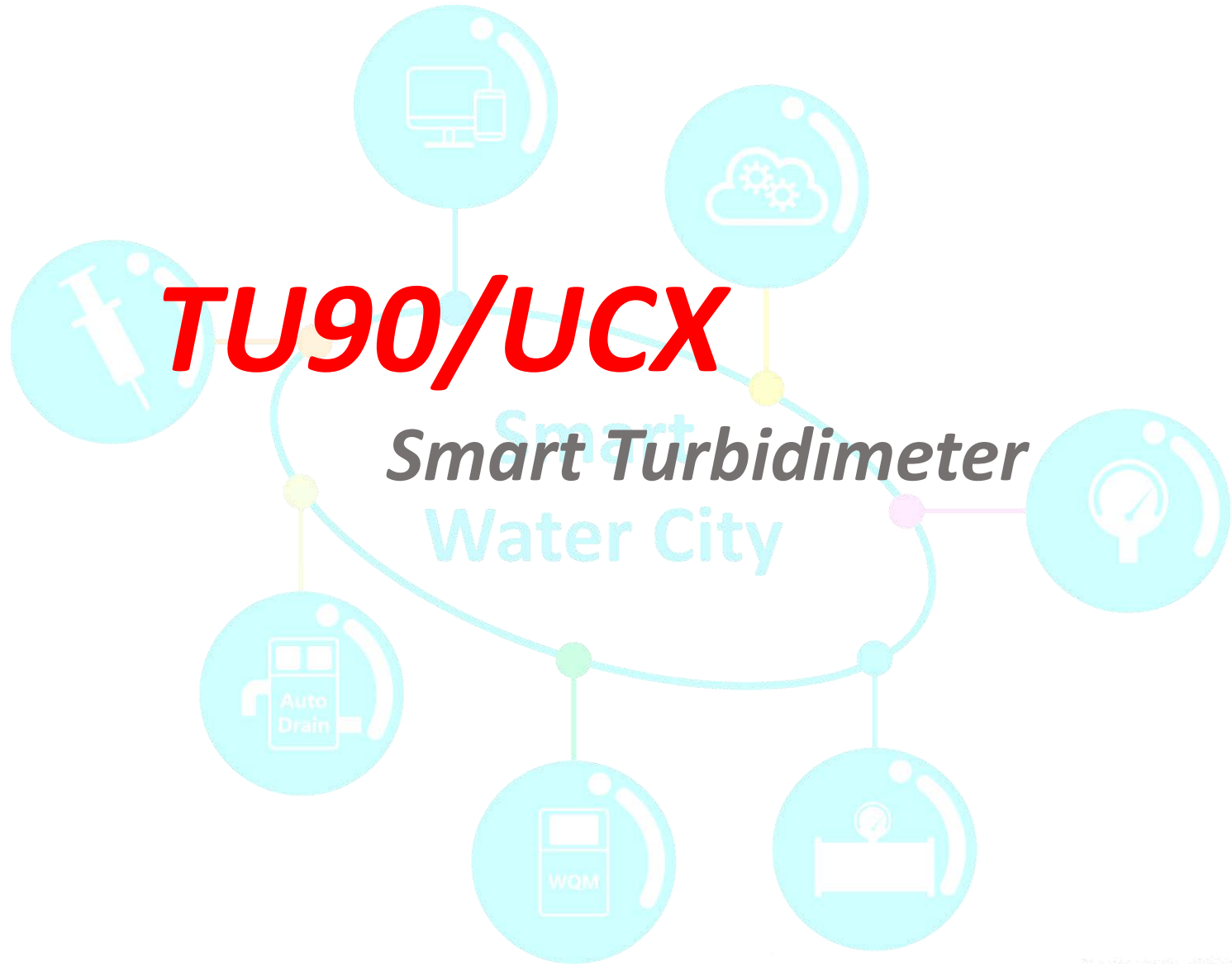
- ▶ Established in 2004
- ▶ 1290-2, Eung-am-ri, Guji-myeon, Dalseong-gun, Daegu, Republic of Korea (Korea Water Cluster)
- ▶ Employee 53 (2021.03)

## Business Field

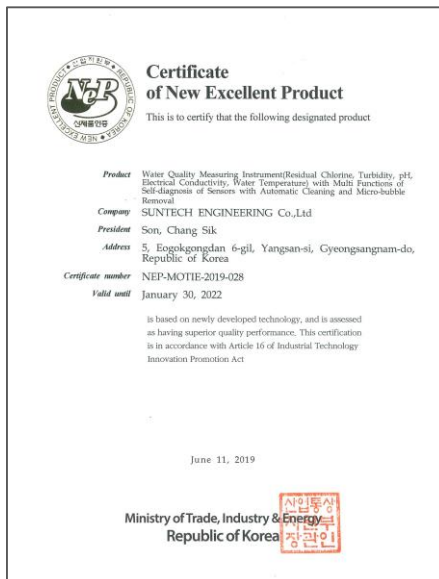
- ▶ Water Quality Measuring Instrument
- ▶ System Integration for Water Works Facilities

## Major Customers

- ▶ K-water
- ▶ Local government waterworks authority
- ▶ Private Water Business



# Smart Turbidimeter



## Specifications of **TU90/UCX**

**90° Scattering Light Method (EPA Method 180.1)**

**Measurement Range:** 0 to 2/10/200 NTU

**Resolution:** 0.0001 NTU

**Accuracy:** ±2% of reading or ±0.015 NTU

**Reproducibility:** ±1%

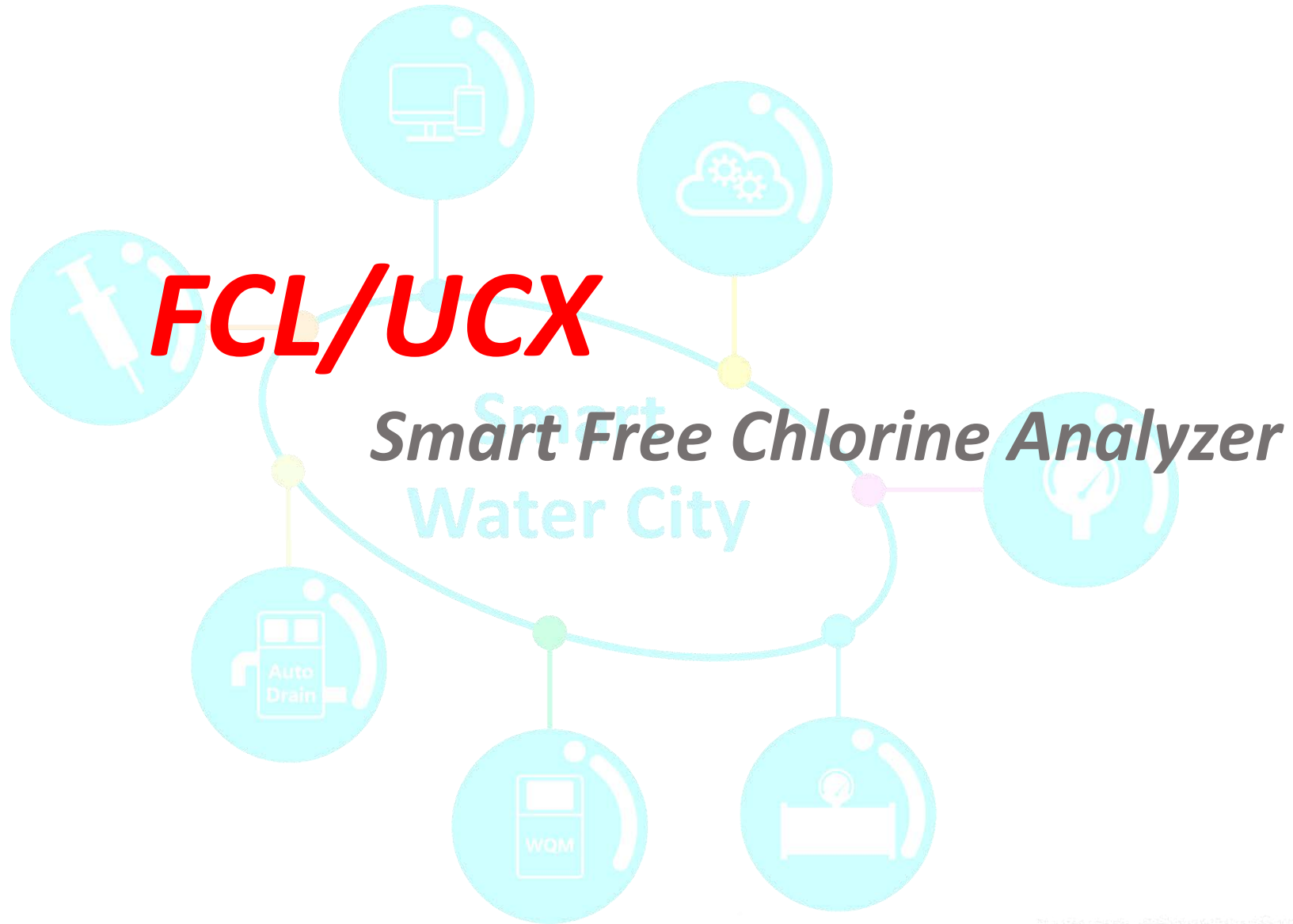
**Measurement Units:** Turbidity(NTU), Temperature(°C, °F)

**Response Time:** Within 45 seconds

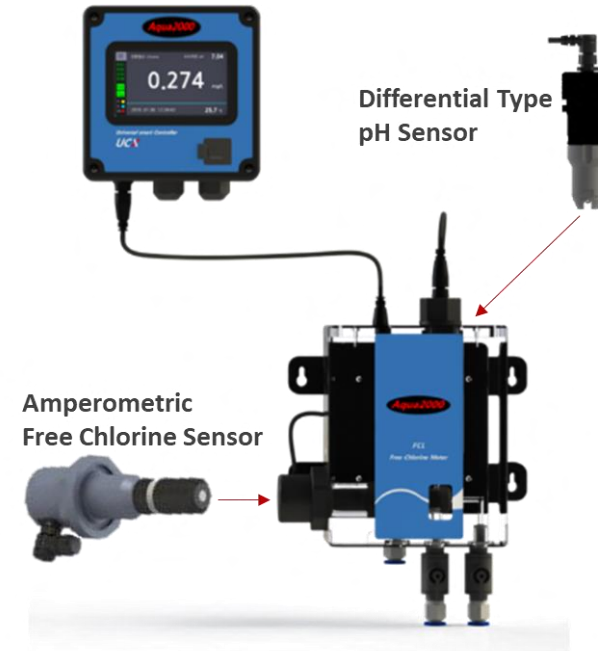
## Superior Technology

- **5 Step High Efficient De-bubble Technology**
- **Fast Response Time: 45sec, 90% reach**
- **Intelligent operation:**
  - Auto Diagnostics & Cleaning
  - Diagnostics & Cleaning





# Smart Free Chlorine Analyzer



## Specifications of **FCL/UCX**

### Amperometric (EPA Method 334)

Measurement Range: 0 to 2/20 mg/L

Resolution: 0.001 mg/L

Accuracy:  $\pm 0.01$  mg/L

Reproducibility:  $\pm 1\%$

Measurement Units: Residual Chlorine (mg/L, ppm),  
pH, Temperature( $^{\circ}$ C,  $^{\circ}$ F)

Response Time: Within 90 seconds

## Superior Technology

- Ion-permeable polymer coating technology
  - Improve accuracy
  - Fast response time: 90sec, 90% reach
  - Fast polarization time: 30min, 90% reach
- Intelligent operation:
  - Auto Diagnostics & Cleaning
  - Diagnostics

# ***Aqua2000-5x***

***Smart Water Quality Analyzer***

**Smart  
Water City**





# Multi-parameter Monitoring System



## Specifications of **Aqua2000-5x**

**Display** : 7-inch TFT-LCD (5 parameters display)

**Measuring Parameters**: Turbidity, Chlorine, pH, Conductivity, Water Temp.

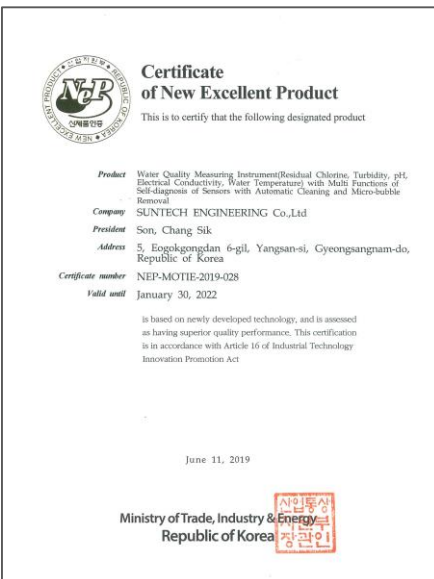
**Enclosure**: NEMA 4X/IP66 ALUMINUM

**Size**: 260mm(W) x 400mm(H) x 225mm(D)

**Power** : AC100 ~ 240VAC, 50/60Hz

**Power Consumption**: Max 34W (Full Operation)

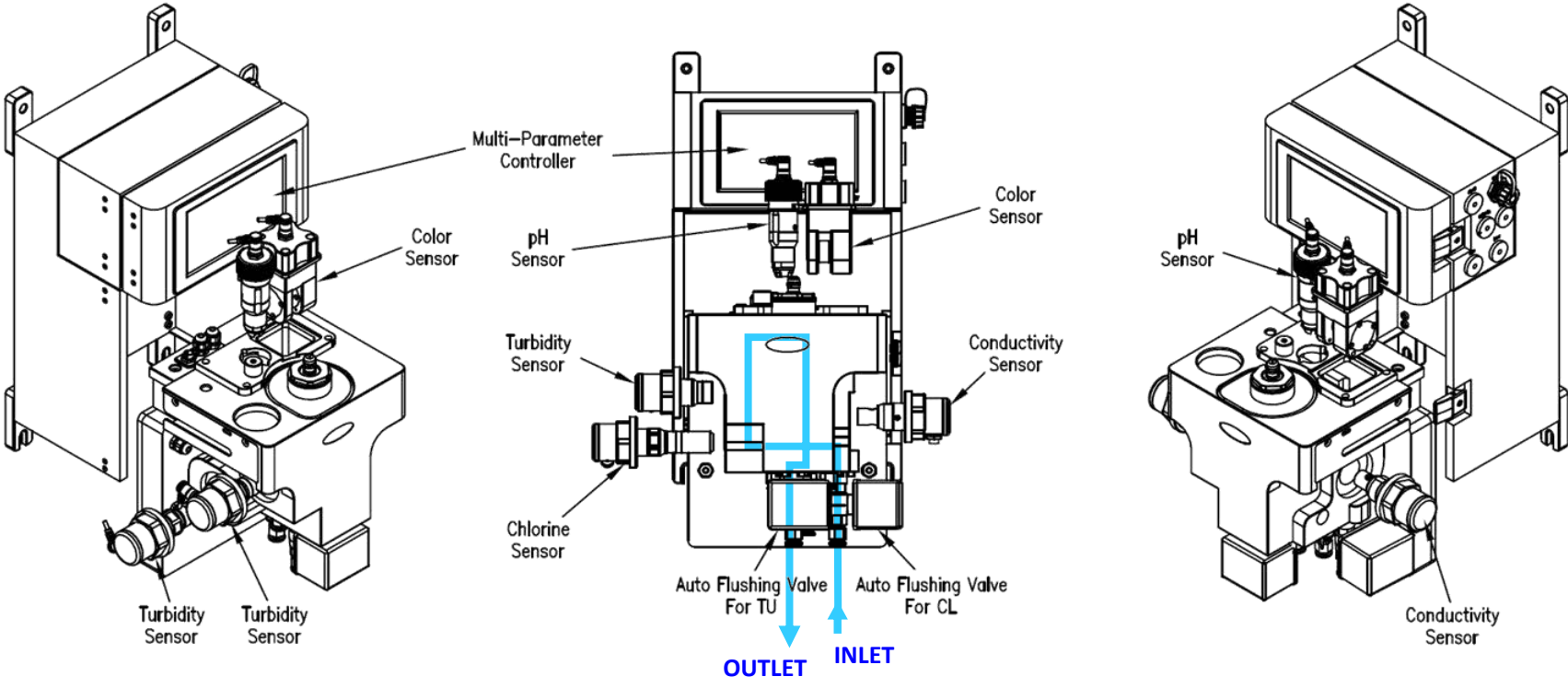
**Sample Flow** : 200 to 1500mL/min



## Superior Technology

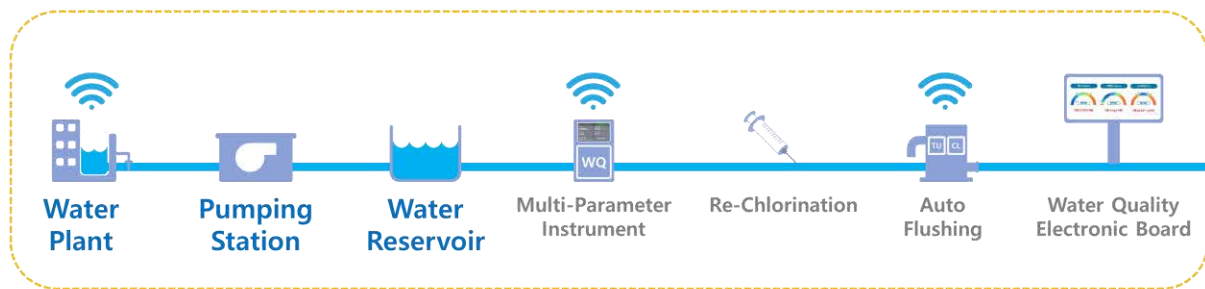
- **All-in-One system: Monitoring & Control (5 parameters)**
- **Optimized sample flow system: One-path, natural flow system**
- **Innovative compact size: A3 size**
- **Intelligent operation:**
  - Auto Diagnostics & Cleaning
  - Remote Diagnostics & Cleaning

# Innovation of 5xc

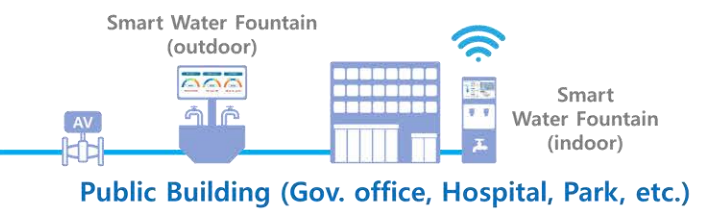


**Reduce Installation Space!**  
**Reduce Installation and Maintenance Cost!**  
**Convenient Operation and Maintenance!**

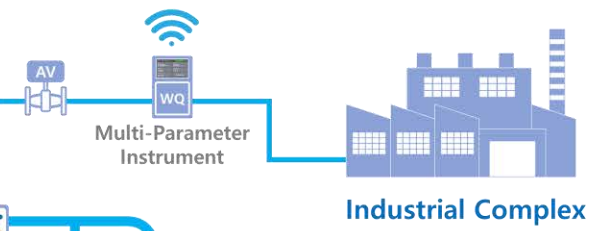
# Application for Smart Water Management



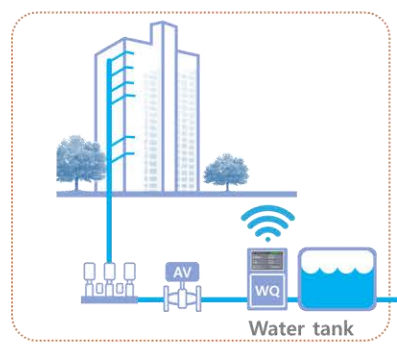
Drinking Water Producing and Distribution Process



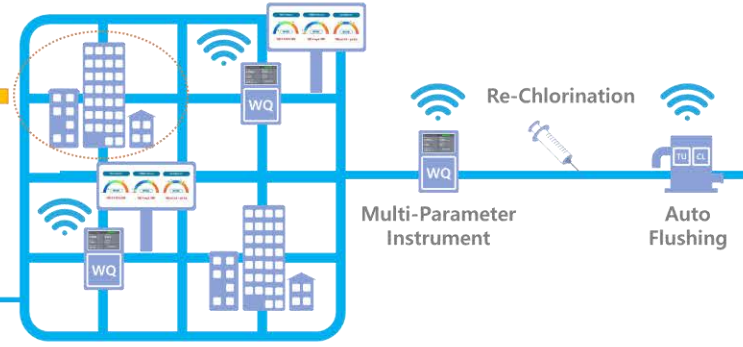
Public Building (Gov. office, Hospital, Park, etc.)



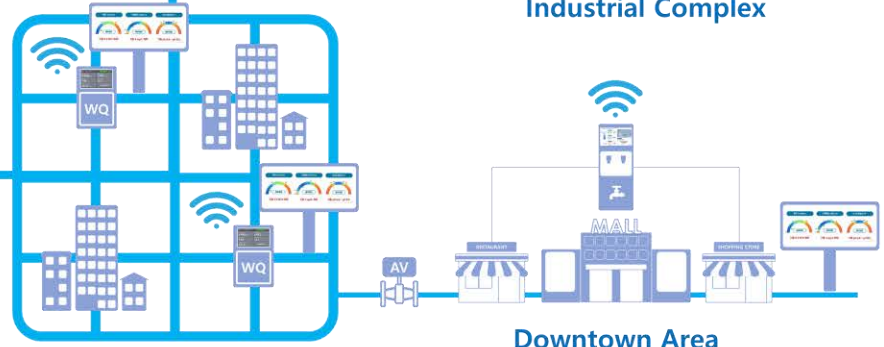
Industrial Complex



Apartment Complex



Block Tap-water Pipeline



Block Tap-water Pipeline

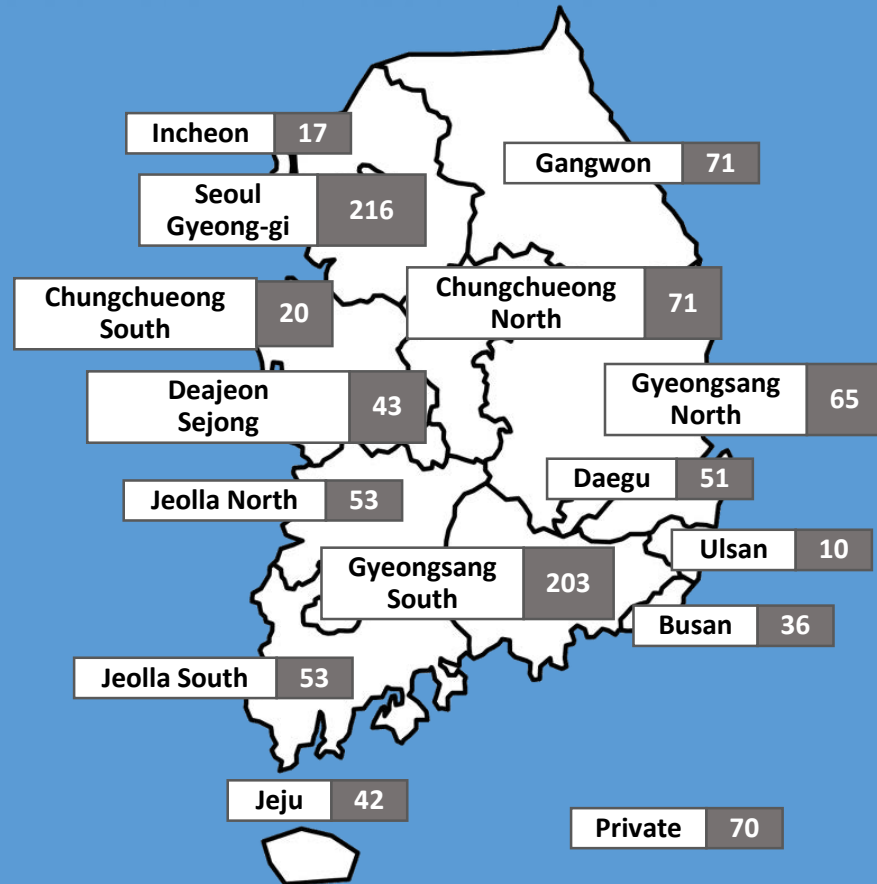
Downtown Area





# Domestic Sales Performance

## Aqua2000 series Domestic Sales Performance (2011 ~ 2020)



### Distribution plant (Water Reservoir)



### Tap-water pipe line



### Apartment Complex Tap-water





# Overseas Sales

Overseas sales performance from 2018 to 2020

**\$420,011.00**



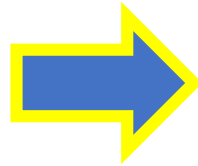
# Applications for Water Treatment Plant - USA

## Cross town Water Treatment Plant, GA



### 8 Filters and Combined

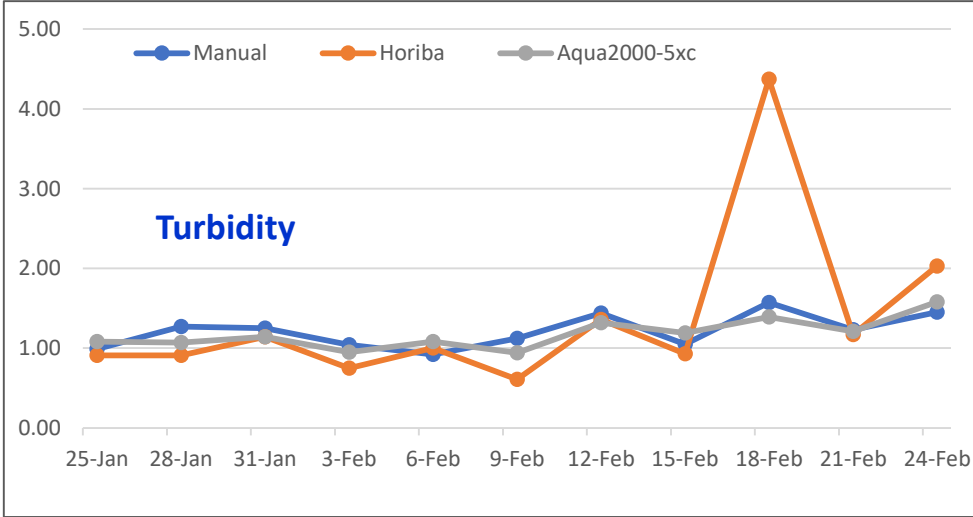
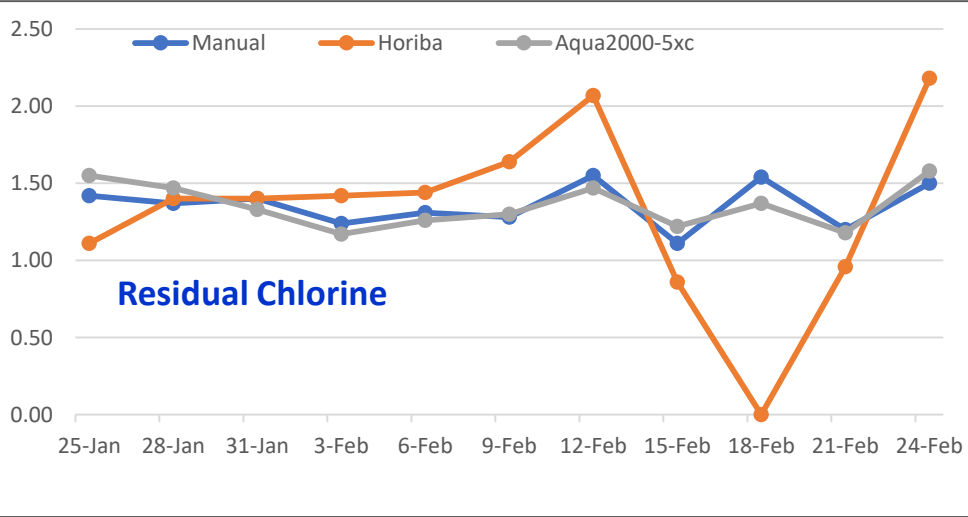
- Pull down HACH 1720E
- Replaced with TU90 (Dec. 2018)



# Malaysia Air Selangor Performance Validation

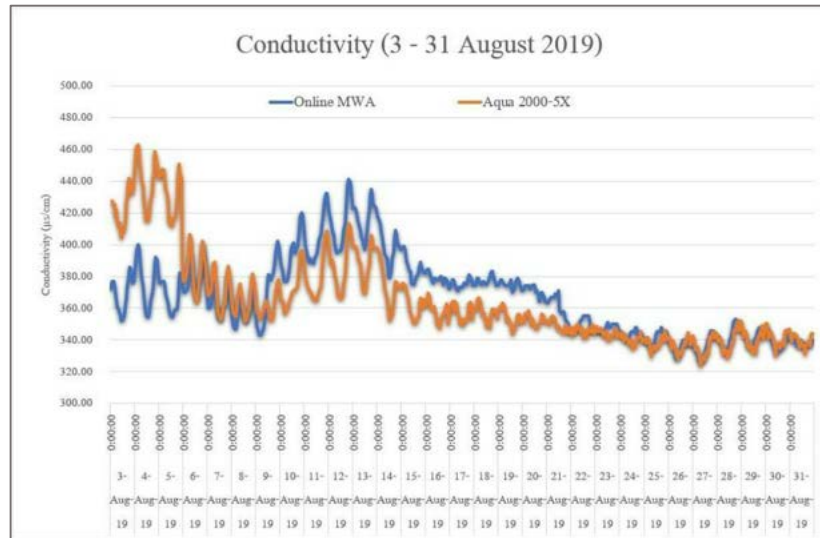
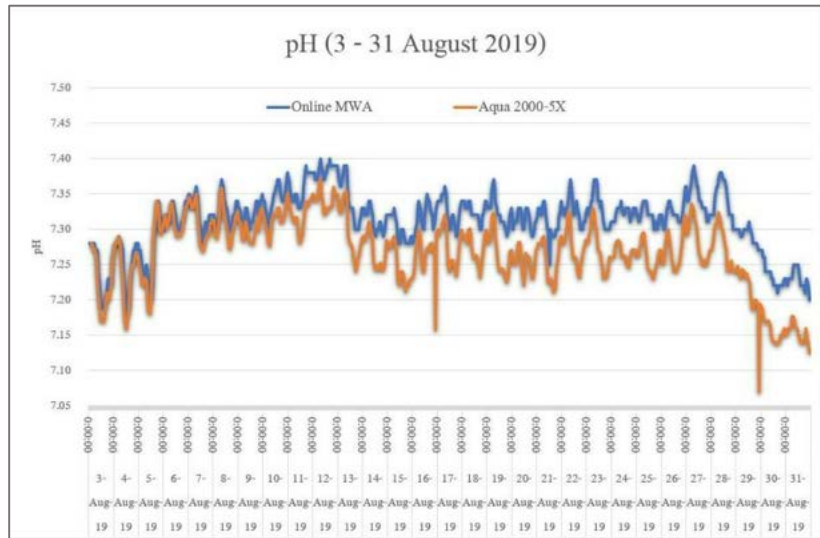
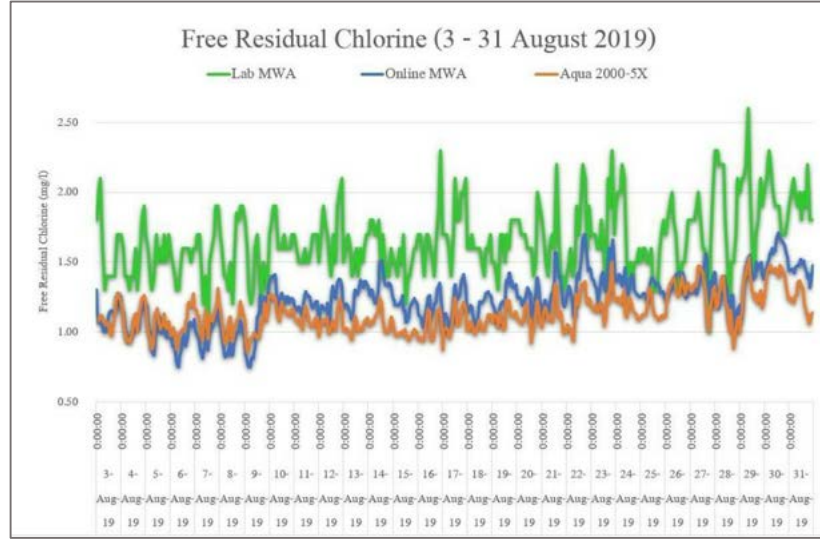
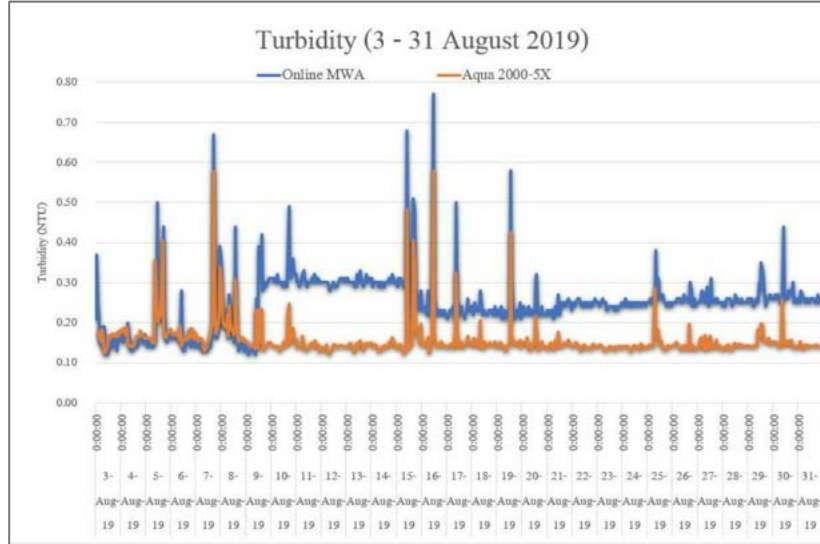
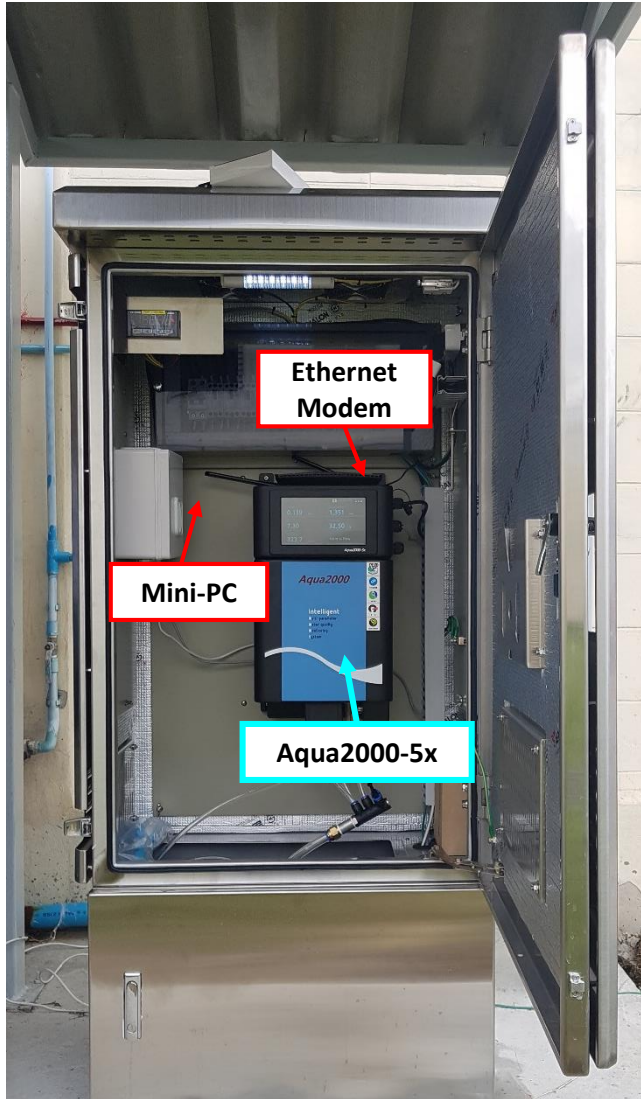
■ Test Period: 2019.01.18 ~ 2019.02.28

Parameters	Turbidity	Residual Chlorine	Color	pH
Limitation	±0.5 NTU	±15 %	±2 TCU	±0.5 pH





# Thailand MWA Performance Validation





**Thank you**