

## Data Sheet

# Flow and Quality Water All in One Station

## Product Features

- Complete Set All In One Flow and Quality Water
- Internet of Thing (IoT) LPWAN Communications
- Wide Measurement Range
- High Precision, Fast Response.
- Renewable Energy Sources
- High Performance Controller



## Specifications

### Radar flowmeter

Speed		Distance	
Rang	0.1~ 20 m/s	Rang	0-45 m
Accuracy	±0.01 m/s ; ±1%FS	Accuracy	±2mm
Resolution	0.01 m/s	Resolution	1mm

IP Protection IP 68

### Controller and Communications

Microcontroller 16 Bit  
 Microcontroller Operating temperature - 40 a 125°C  
 Communications\* LoRaWAN / NB IoT / Sigfox  
 \*One selectable Communications or  
 Support Redundant Communication (Options)

Cloud Server Wireless communication MQTT, Protocol etc.  
 IP protection IP65

### Multi parameter water quality sensor

#### Dissolved Oxygen Sensor

Measuring Range	0~20 mg/L
Accuracy	±0.4 mg/L
Resolution	0.01 mg/L

#### Turbidity Sensor

Measuring Range	0~100NTU   0~1000NTU
Accuracy	±3% or ±2NTU   ±5% or ±3NTU
Resolution	0.1NTU

#### COD Sensor

Measuring Range (COD)	0~200 mg/L equiv. KHP 0~500 mg/L equiv. KHP
Measuring Range (Turbidity)	0~100NTU 0~200NTU
Accuracy (COD)	±5% F.S.
Accuracy (Turbidity)	±5% F.S.
Resolution (COD)	0.1 mg/L
Resolution (Turbidity)	0.1NTU

#### pH Sensor

Measuring Range	0~14pH
Accuracy	±0.1pH
Resolution	0.01pH

#### ORP Sensor

Measuring Range	-1500mV~+1500mV
Accuracy	±6mV
Resolution	1mV

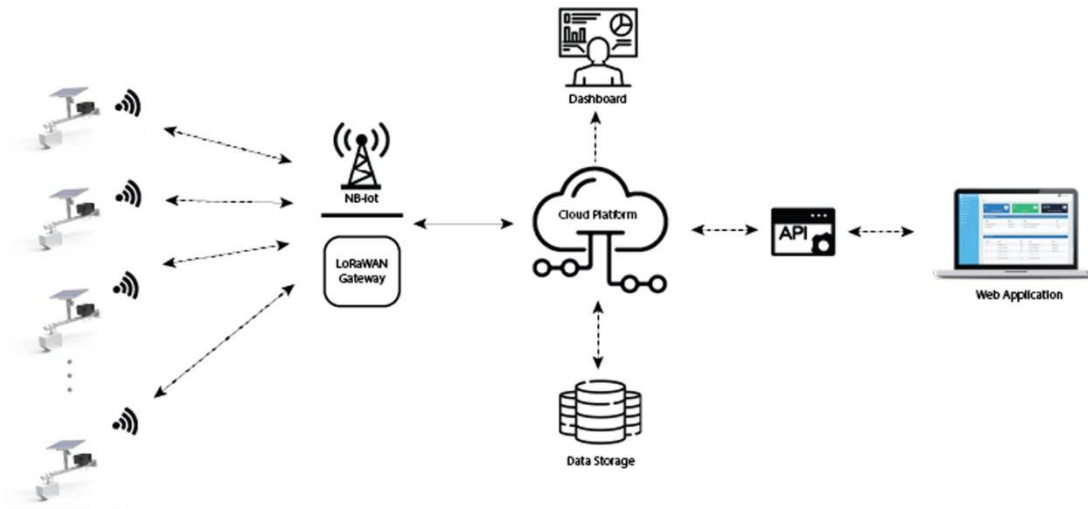
#### Temperature

Measuring Range	0~5 °C
Accuracy	±0.5°C
Resolution	0.1°C

### Solar Power Supply

Solar cell	30 W
Battery Sealed Lead Acid type	12 V
- Capacity	12 Ah
Solar Charger Controller	12/24 Vdc
- Current Rating	10A

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System Diagram