

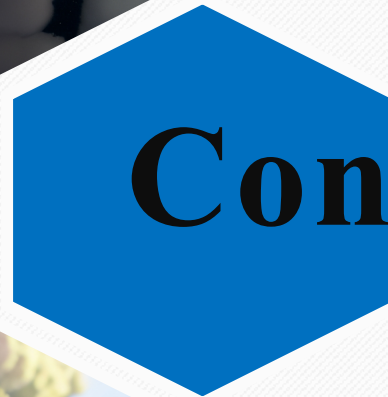


HighReach

Besteetech

roxy@besteetech.com

Shaanxi Besteetech Importing&Exporting Co. Ltd



Content

roxy@besteech.com



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- 🌟 Listed into "Promotion List of Advanced Technology Products for Water Conservancy " for 5 times.
- 🌟 ISO9001 Certificate
- 🌟 Shaanxi Province AAAAA Credit Corporation

Located in Baoji—a major industrial hub in China—**BESTEETECH, a division of HighReach Measuring & Controlling System Co., Ltd.**, is a specialized supplier of industrial measurement instrumentation and precision assembly tools. With years of deep industry experience, we consistently uphold the philosophy of “Technology-Driven, Quality First,” providing global manufacturing enterprises with stable and reliable industrial automation solutions. We offer more than just products; we are dedicated to enhancing the efficiency and precision of your production processes.



High-Reach is a **high-tech enterprise** in Shaanxi Province and a **Tech SME** assessed by the **Torch Center of the Ministry of Science&Technology**, and has attained the Certification of **Integrated Management System for Industrialization &Informationization**.

Based on years of development and technology accumulation, nowadays High-Reach is a professional team with experienced ,skilled,responsible and innovative intellectuals. The experience of R&D, production and manufacturing in the past 10+ years helps our products and service establish a good reputation in the transducer industry and we have thousands of domestic companies to be our high-quality long-term partner. We sincerely wish to establish business relationship with more partners from home and abroad.

2007~
2009

Conventional transmitters launched, including the **HR320** series digital piezoresistive pressure transmitter, which changes the traditional operation mode of industrial pressure monitoring.

2010~
2013

HR8003 high-precision pressure gauges launched. Achieving **the highest accuracy of 0.05% F.S** in the international industry. Various specifications of digital torque wrenches were launched gradually.

2013~
2015

The quality of various high-precision pressure water level gauges is improving day by day, with an accuracy of 0.05% F.S, the highest standard in the international industry.

2016~
2017

Groundwater measurement instruments represented by the **HR8800** water level monitoring recorder has been launched. Meanwhile **HRMC.908** type 26G high-frequency **RADAR water level gauge** and **HRRD730** 24G planar **RADAR** water level gauge were launched. Dedicated to developing precision static level instruments.

2017~
2019

We launched the **HR8800S** (**Automatic self-contained water level gauge**) and **HR8033** the **first fully-welded three-parameter water level gauge** in China, entering the field of high-end monitoring equipment. Meanwhile **HR9600-L** the low-power telemetry terminal and **HRRD7360** **RADAR** current meter were launched.

2020~
Now

Stable manufacturing and supply of all kinds of transmitters and high-stability **RADAR** products. Water quality testing equipments were launched, IoT platforms and related products were gradually improved. HighReach transformed from production-oriented enterprises to service-oriented enterprises. Steady and rapid development!



Honors&Reputation

Some Certificates



Testing&Certificates





HighReach currently has a total of **32** patents,
with **8** patents and one software copyright
being applied for.

Currently we manufacture&supply transmitters of 4 types:

- ① Groundwater measuring series(P12~30)
- ② Radar (Level/Flow) Transmitters
P31~49
- ③ Doppler Flow Transmitter (P50~54)
- ④ Pressure measuring series(P55~61)



Model	Qty of Annual Production
BT8803 Fully automatic intelligent water temperature and level recorder	15 thousand
BT7380 Radar Level Meter	4000 sets
BT8003 Level Transmitter	15 thousand
BT3188 4G Smart Pressure/Level Transmitter	10000 pcs
BT7600-2 Doppler Flow Meter	15 thousand
BT3051 Mono-Crystal Silicon Differential Pressure Transmitter	15 thousand
BT7360 Radar Flowmeter	15 thousand

Our Goal: Offer Best Solutions for Customers, win high Satisfaction.

**Our HighLights: Professionally trained technical team
Persistence and Innovation
Strict Quality Control System**

**Our Service: Customer Satisfaction is our top pursuit.
Products with gaurantee are offered here.**

Underground Water Measurement

Water Level Transmitters, Water Level&Temperature Recorders;Water Quality Recorder



BT8003 Pressure Transmitter with High Accuracy



FEATURES

- Pressure sensing components of high quality and high stability
- Integrated measurement of water level and temperature
- Full range digital calibration, full temperature range temperature error compensation.
- RS485 interface and MODBUS-RTU standard communication protocol.
- Reverse power connection protection and overvoltage protection.
- Anti surge and electromagnetic interference. All stainless steel sealing structure, IP68 protection.

Accuracy: $< \pm 0.05\% \text{ F} \cdot \text{S}$

Range: 0 ~ 10 mH₂O...300 mH₂O

RS485/MODBUS-RTU Agreement

BT8006 Pressure Transmitter with High Accuracy



FEATURES

- Widely used in **freshwater/drinking water treatment, waste water and sewage treatment, seawater measurement, surface water or groundwater monitoring in the hydrology and water industry.**
 - High stability liquid level measuring sensor element, good long-term stability
 - RS485 standard MODBUS-RTU protocol, can be used in DCS or PLC system
 - Reverse power protection and surge protection
 - Optional unique air filter to prevent condensation and blockage in the atmosphere compensation capillary
 - Low power consumption, when operating at full speed, the power consumption is about 4mA, which is outstanding when it is powered by an external battery.
- **Range:** 0 ~ 10、 20、 50、 100mH₂O
 - **Accuracy:** 0.05%F.S (Optional) , 0.1% F·S (typical)
 - RS485/MODBUS-RTU Agreement

BT3188 4G Pressure/Liquid level transmitter



FEATURES

- **Range(Level):** 0 ~ 0.5 mH₂O... 2mH₂O
- **Range(Pressure):** 0-10kPa/100MPa
- **Accuracy(Level):** ±0.5% F·S(0 ~ 2 mH₂O) ; ±0.1% F·S(2 ~ 5 mH₂O)
- **Accuracy(Pressure):** 0.5%FS

- Explosion proof (explosion-proof) standards and low-power design
- Multiple transmission methods : 433MHz, Lora, GPRS, 4G, NB-IOT, and WIFI.
- Can be powered by batteries or an external power source. DC5.8V-DC24V or battery up to 2A
- Transmitting Power: 433MHz: 100mW, transmitting power 20dB; Lora: 100mW, transmitting power 20dB.
- Built in real-time clock, normal periodic reporting function, pressure exceeding upper and lower limit alarm, battery undervoltage alarm, sensor fault alarm, and other functions

2

Product Display- Level

BT3188 4G Pressure/Liquid level
transmitter

Application

Construction site in previous project



运行参数	
测站地址	31880519056
系统时间	2023-11-28 16:03:32
联网状态	空闲
信号强度	13
电源电压	7.15
压力值	193.975
温度值	0.0
液位值	0.000

应用范围比较广泛

BT8003 Pro Small Diameter Water Level&Temperature Recorder



FEATURES

- **Range:** 0 ~ 10 mH₂O...300 mH₂O
- RS485/MODBUS-RTU Agreement
- **Accuracy:** < ±0.05% F·S(Level);
0.1 °C(Temperature)
- Full featured: Real time monitoring of water level and temperature
- Low power consumption: intelligent power management design
- Small size: all stainless steel input structure
- Internal built-in storage

BTRTU8180 GPRS GSM Micro-consumption RTU



FEATURES

- **High precision:** water level 0.05% F.S (optional), resolution 1mm
- **Multifunctional:** built-in battery and memory Optional
- **Information collection:** Regularly collect data such as water level, water temperature, battery voltage, and sensor status
- **Data storage:** Automatic storage of monitoring data
- **Multi center communication:** Data can be simultaneously reported to multiple centers in counties, cities, and provinces
- **Intelligent alarm:** When data exceeding the limit/the battery voltage is too low
- **Remote maintenance:** remotely modify device parameters and report frequency;

Remote device upgrade program

BT8000/K/RK Smart Liquid Level Transmitter



FEATURES

- **Range:** 0 ~ 10 mH₂O...300 mH₂O
 - **Accuracy:** < ±0.5% F-S
 - 2-Wire 4-20 mA
- All stainless steel sealing structure IP68 protection
 - High quality silicon piezoresistive measuring element
 - Digital compensation and adjustment no potentiometer offset due to mechanical vibration
 - Anti-sand structure design water guide head detachable easy to maintain and clean regularly
 - Reverse power protection and overvoltage protection
 - High-quality silicon piezoresistive measuring elements.
 - Power reverse connection protection, over-voltage protection.
 - Anti-surge, EMI.

BT8008 Ceramic Capacitance Input Water Level Gauge



FEATURES

- **Range:** 0 ~ 0.5 mH₂O... 300mH₂O
- **Accuracy:** $\pm 0.25\%$ F·S(0 ~ 2 mH₂O) ; $\pm 0.05\%$ F·S(0 ~ 300mH₂O)
- RS485/MODBUS-RTU Protocol
- Dry ceramic capacitive pressure sensing element with excellent long-term stability.
- Strong overload capacity and corrosion resistance.
- Integrated measurement of water level and temperature.
- Full-scale digital calibration and temperature error compensation across the entire temperature range.
- Power reverse connection protection and overvoltage protection.
- Surge resistance and electromagnetic interference.
- Fully stainless steel sealed structure with IP68 protection.

BT8803 Intelligent Temperature And Water Level Recorder



FEATURES

- **Range:** 0 ~ 5 mH₂O... 300 mH₂O
- **Accuracy:** $\pm 0.05\%$ F·S
- RS485/MODBUS-RTU
- Built-in Low-consumption Battery
- Groundwater/unmanned hydro-logical sites/flood warning system/city flood control system
- Monitoring the oceans rivers/lakes/industrial process /reservoirs/large dams
- Full-scale digital calibration with comprehensive temperature compensation
- Strong overload capacity
- Wide power supply range from 5-30VDC
- Internal memory for storage and logging of more than 30,000 records
- Fully sealed stainless steel (or titanium) housing structure with IP68 protection

BT8800S Self-contained Intelligent Water Level and Temperature Recorder



- **Range:** 0 ~ 5 mH₂O... 300 mH₂O
- **Level & Temperature Accuracy:** $\pm 0.05\%$ F.S
- RS485/MODBUS-RTU
- Built-in Low-consumption Battery
- With Lifting Wire Rope

FEATURES

- Self-contained: No cable extraction, strong underwater sealing.
- Comprehensive functions: Real-time monitoring of water level, water temperature, water pressure, etc.
- Protection level: All stainless steel sealed structure, IP68 protection.
- Temperature compensation: Full-range digital calibration, temperature error compensation across the entire temperature range.
- Overvoltage protection, surge voltage protection, and reverse polarity protection to prevent electrical damage caused by operational errors.

BT8801 Water Level Temperature Monitoring Recorder



- **Range:** 0 ~ 5 mH2O... 300 mH2O
- Level & Temperature **Accuracy:** $\pm 0.05\%$ F.S
- RS485/MODBUS-RTU
- Built-in Low-consumption Battery

FEATURES

- Dry capacitive ceramic sensor
- Wide power supply range, 5~30VDC, with reverse polarity protection and surge voltage protection.
- Internal storage capacity for over 30,000 records (water level, water temperature, time, battery voltage).
- All stainless steel or titanium alloy housing with IP68 protection rating.
- Full temperature range temperature compensation and full-scale digital calibration.

BT8033 3-Parameters Water Quality Analyzer



Features

- **Range:** 0 ~ 5 mH₂O... 300 mH₂O
- **Accuracy:** ±0.05%F.S
- RS485/MODBUS-RTU
- **Level, Temperature, Conductivity**
- Small size: Structure of Integrated design 239 mm
- Low power consumption: Intelligent power management design
- Long transmission distance: RS485 digital output, with a transmission distance of up to 12km
- Anti interference: Integrated anti reverse connection, anti overvoltage circuit, and anti interference processing circuit
- Low power consumption: Intelligent power management design.
- Full functionality: Real-time monitoring of water level, water temperature, and conductivity simultaneously.

2

Product Display- Level

Immersible level transmitter

Application

Construction site of water and electricity blocking project



Product Display- Temperature

BT6100 High Precision Temperature Transmitter



Features

- **Accuracy:** $\pm 0.1\text{ }^{\circ}\text{C}$
- **RS485** standard MODBUS-RTU protocol
- 5-30V wide power supply
- Power reverse connection protection and surge voltage protection
- Using imported temperature sensors
- Using 316L stainless steel casing
- The temperature probe is placed at the front end and can be customized with various specifications according to the user's on-site requirements
- Suitable for occasions with special requirements for installation dimensions(Totally 10.5cm)

Product Display- Temperature

- BT6200 On-site Display Temperature Transmitter

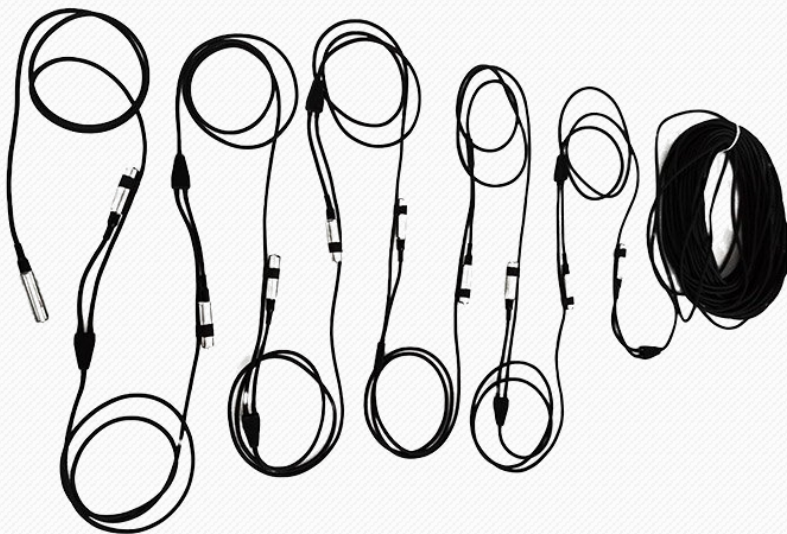


Features

- **Accuracy:** $\pm 0.5\%$
- **Output:** 4-20mA/RS485 MODbus
- Power supply : DC12-40V
- **IP65**, dustproof, anti water spray
- The meter head can rotate up to 360 °, and the positioning screw can fix it in any position
- Compliant with GB/T18268 Industrial Equipment Application Requirements (IEC 61326-1), resistant to walkie talkie interference

Product Display- Temperature

- Temperature Transmitter Chain



RS485 standard MODBUS-RTU protocol

Range: 0-10kPa/100MPa

Features

- Customizable temperature measurement **spacing** and **number** of temperature measurement points
- Built in double steel wire reinforced cable, can adapt to **harsh environments** such as frozen soil deformation.
- The temperature sensing part of the measuring point is reasonably convex, ensuring direct contact with the measuring medium and **high real-time measurement** performance
- Each temperature measurement point stores its own serial number, ID information, and position information. Low power consumption - suitable for field measurement,

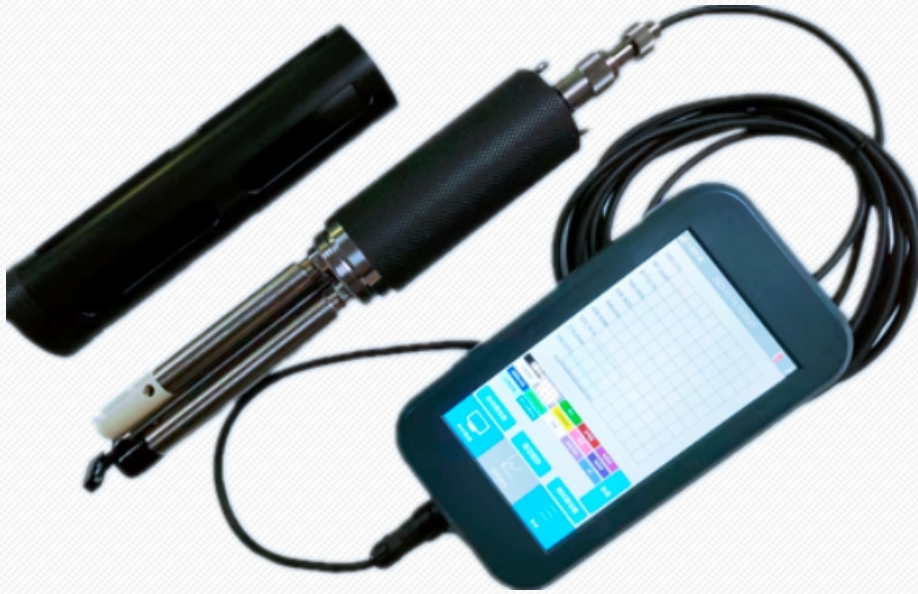
BT8860 Multi-parameter Water Quality Analyzer



FEATURES

- Digital sensor, **RS485/MODBUS**
- Multi in one structural design, capable of connecting
- **5 probes** simultaneously and measuring more than **10 parameters**
- All calibration parameters are stored inside the sensor, and each probe is equipped with a waterproof connector for easy insertion and replacement
- Equipped with an automatic cleaning device, it can effectively remove surface contamination from sensors, prevent microbial growth, and provide more accurate and lower maintenance
- Suitable for long-term online monitoring
- Optional fluorescence dissolved oxygen, 4-electrode conductivity, fiber optic turbidity, digital pH, digital ORP, chlorophyll, blue-green algae, and water oil sensors

BT4000 pro Multi-parameter Water Quality Analyzer



FEATURES

- Digital sensor, **RS485/MODBUS**
- 1024 * 600 IPS touch screen
- Can install **4** sensors simultaneously and measure more than **10** parameters
- Supports digital sensors such as pH, ORP, turbidity, dissolved oxygen, conductivity, ammonia nitrogen, nitrate nitrogen, chlorophyll, blue-green algae, oil in water, FDOM, etc
- Monitoring data can be sent wirelessly to the database
- Support real-time and historical data queries
- With intuitive near-field debugging and convenient remote management interface

Non-contact RADAR Measurement (Level & Flow)

Radar Level Gauge, Radar Flow Gauge, Hand-held Radar Flow Velocity Meter



Website: <https://www.besteetech.com>

BT7301 VS BT7302 Radar Level Meter(Bell mouth design)

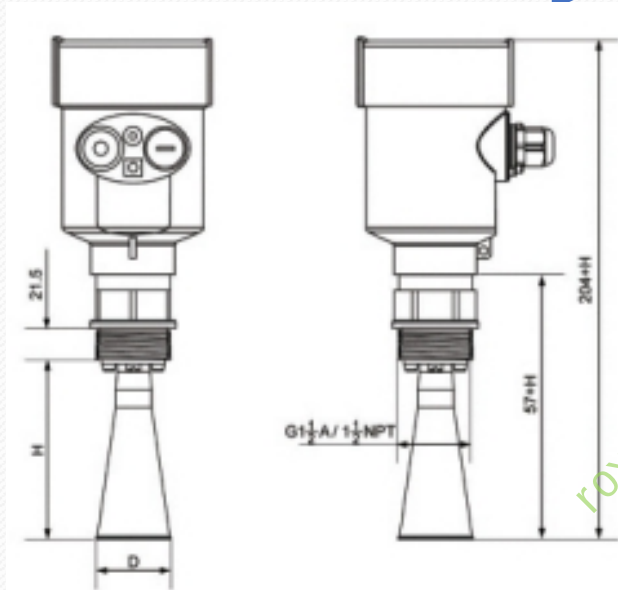


FEATURES

- Small beam angle, concentrated energy, stronger anti-interference ability, greatly improving measurement accuracy and reliability.
- **Small-sizes antenna** , making it easy to install and install antenna protective devices such as dust covers
- Lightweight by approx. 1KG, easy to install
- **RS485/MODBUS**
- **Range:** BT7301(30 m) BT7302(70 m)(large-scale water level measurements in reservoirs
- Transmission frequency: **26 GHz**

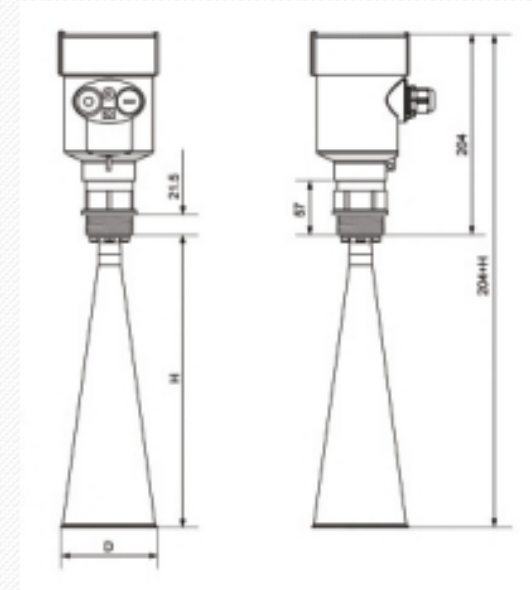
BT7301 VS BT7302 Radar Level Meter(Bell mouth design)

BT7301



Flange	Bell Mouth Diameter	Bell Mouth Height
DN50	$\phi 46$	140
DN80	$\phi 76$	227
DN100	$\phi 96$	288

BT7302



Flange	Bell Mouth Diameter	Bell Mouth Height
DN80	$\phi 76$	227
DN100	$\phi 96$	288
dn125	$\phi 121$	620

2

Product Display- Level

BT7301 Radar Level Meter

Application

Construction site in previous project



BT7380 Radar Level Gauge



FEATURES

Transmission frequency: **80 GHz**

Range: 0-15m,0-30m,0-60m

Lens antenna, Aluminum alloy housing

Built-in Lithium Battery

- Narrowest 6 ° antenna beam angle.
- Bracket installation , powered by a 3.6V lithium battery,
- Optional **485/NB** communication, without the need for on-site wiring, making installation convenient and simple.
- More compact RF architecture, higher signal-to-noise ratio and smaller blind spots
- 5GHz working bandwidth --higher measurement resolution and accuracy
- Supports NB wireless transmission with configurable upload cycle
- Integrated lens design with compact volume

2

Product Display- Level

BT7380 Radar Level Gauge

Application

Construction site of reservoir project



BT7380E Integrated Radar Level Gauge



FEATURES

- Compact in size and weighing less than 2.5kg
- Narrowest antenna beam angle of 6°
- Equipped with a built-in RTU and rechargeable lithium battery
- This energy-efficient and non-contact measurement
- Accuracy can reach 1mm
- Lower over-all cost, easy installation, and low maintenance requirements.
- 4G Wireless transmission.
- Housing: Aluminum alloy
- Bracket Installation.

Range: 60m

RS485, MODBUS Protocol

Transmission frequency: **80GHz**

Built-in Lithium Battery

BT7380P Radar Level Gauge



FEATURES

- High quality and high stability CMOS millimeter wave RF chip
- Beam angle 3°/8°/14° Optional. Customization for **high pressure and high temperature** are available.
- Accuracy Long term stability<0.02% F S/year
- The threaded interface is easy to install and can also be equipped with suitable flanges for different usage scenarios
- The use of different external structures and installation structures can ensure stable operation in very complex environments
- The protection level can reach IP67

Range: 0~5~10M; 0-30~70~120M

RS485, MODBUS Protocol

Accuracy: ±1mm; ±2mm; ±5mm;
±10mm; ±15mm Optional

BT7380W Universal Flange Radar Level Meter



FEATURES

- Beam angle 3 ° room temperature, universal blowing, Size of flange can be customized.
- Customization for high pressure and high temperature are available.
- The universal blowing function quickly and effectively cleans the surface dust, frost, and mist of the lens, ensuring measurement accuracy.
- Shorter wavelength, better reflection characteristics on solid surfaces, greatly reducing dependence on different types of flanges.
- Support remote debugging and upgrading and Bluetooth debugging

Range: 0~30M~120M

Output: RS485, MODBUS Protocol

Accuracy: $\pm 1\text{mm}$; $\pm 3\text{mm}$; $\pm 10\text{mm}$ optional

Transmission frequency: 80GHz

BT7380F Anti-corrosion Flange Radar Level Meter



FEATURES

- Normal environment: Beam angle 8 °, -40~85 °C, flange interface DN50 and DN65
- High Temperature: Beam angle 8 °, -40~200 °C, flange interface DN50 and DN65
- Flange size can be customized.
- Beam angle 3 °, -40~85 °C, flange interface DN80~DN200
- Beam angle 3°/6°/8° Optional. Customization for **high pressure and high temperature** are available.

Contact me for more details.

Range: 0~30M~120M

Output: RS485/4~20 mA

Accuracy: ± 1mm; ± 3mm; ± 10mm optional

Transmission frequency: 80GHz

BT7310 Radar Level Gauge



FEATURES

- Compact in size and weighing less than 2.5kg
- Narrowest antenna beam angle of 6°
- Equipped with a built-in RTU and rechargeable lithium battery
- This energy-efficient and non-contact measurement
- Accuracy can reach 1mm
- Lower over-all cost, easy installation, and low maintenance requirements.
- 4G Wireless transmission.
- Housing: Aluminum alloy
- Bracket Installation.

Range: 1.5 ~ 40m

RS485, MODBUS Protocol

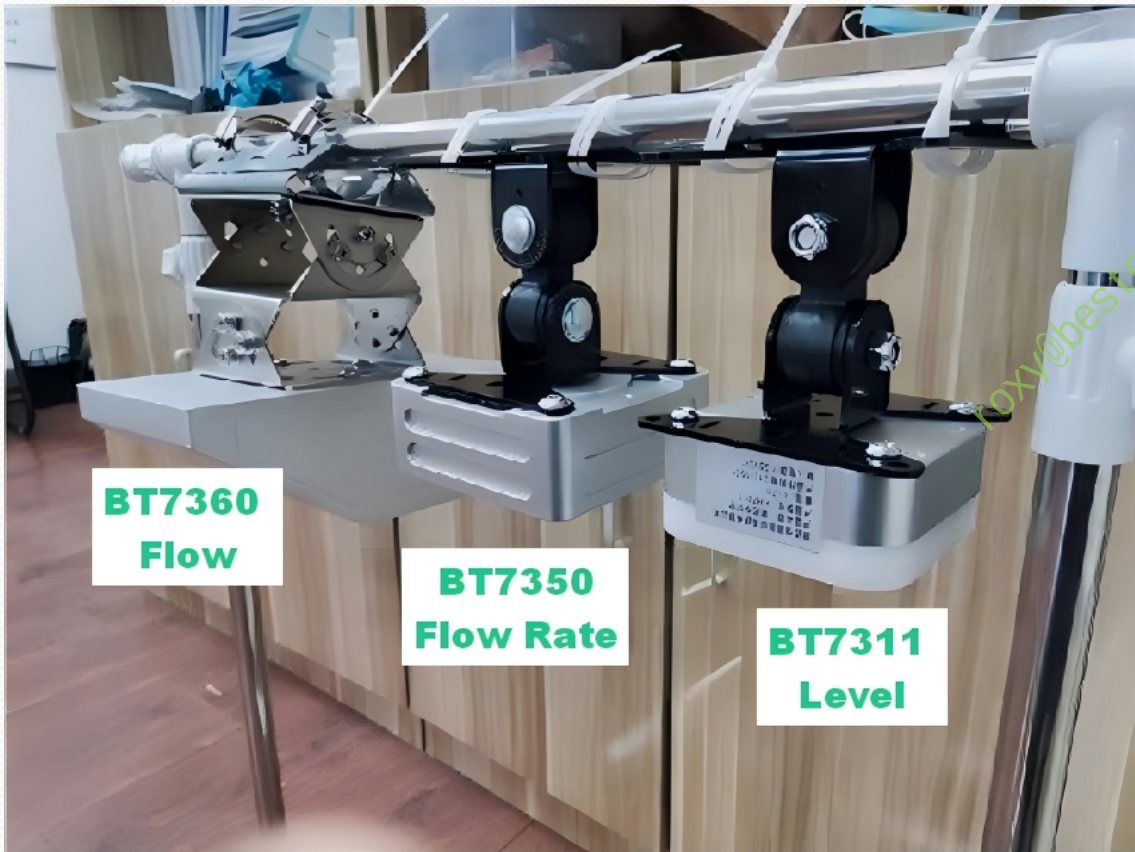
Transmission frequency: **24GHz**

Built-in Lithium Battery

2

Product Display- Level

Combination application of level,
flow rate, flow transmitter



Application

Construction site in previous project



Product Display- Flow Velocity

BT7320 Hand-held Radio(Radar)Velocity Meter



FEATURES

- Compact and portable design
- Customizable LCD screen and display program
- Storage of over 1000 measurement results
- Supports bracket fixation and Bluetooth configuration
- Ultra-low power consumption design, dual-mode power supply (rechargeable lithium battery/dry battery), ensuring all-weather response for emergency measurements.
- Self-developed core measurement module and velocity calculation algorithm.

Range: 0.05m/s-30m/s

Accuracy: $\pm 0.01\text{m/s}$, $\pm 1\%\text{FS}$

Measure distance: 100m

Transmission frequency: 24 GHz

Product Display- Flow Velocity

BT7580 Radar Flow Velocity Meter



FEATURES

- Non-contact measurement of flow velocity, liquid level, and flow rate using a hybrid frequency radar, with simultaneous and independent outputs, requiring minimal maintenance and unaffected by sediment and other factors.
- IP68 waterproof design
- Compact and sleek appearance
- Integrated reverse connection, lightning protection, and overvoltage protection functions.
- Support for Modbus-RTU protocol, facilitating system integration.
- Support for Bluetooth debugging via mobile phones

Range: 0.05m/s-30m/s

Accuracy (Velocity) : $\pm 0.01\text{m/s}$

Distance Accuracy: $\pm 1\text{mm}$

Measure distance: 100m

Transmission frequency: **24 GHz**

Product Display- Flow Velocity

BT7350 / BT.FSL-1 RADAR Flow Velocity Meter



FEATURES

- Built in German InnoSenT 24GHz (ISM standard band) radar detection module
- Fast and accurate measurement, stable data output, and suitable for high velocity environments during flood periods
- Multiple data communication interfaces
- The antenna transmission frequency is flexible and adjustable, effectively avoiding interference between multiple products
- Designed to prevent internal condensation, waterproof, and lightning protection, suitable for various outdoor environments
- Compact appearance, convenient installation, and easy maintenance

Range: 0.03-30 m/s

Accuracy: $\pm \pm 0.02$ m/s

Transmission frequency: **24 GHz**

Product Display- Flow

BT7360 RADAR Flow Meter



Water level and flow rate

Internal software algorithms

**Real-time cross-sectional flow
and cumulative flow**

FEATURES

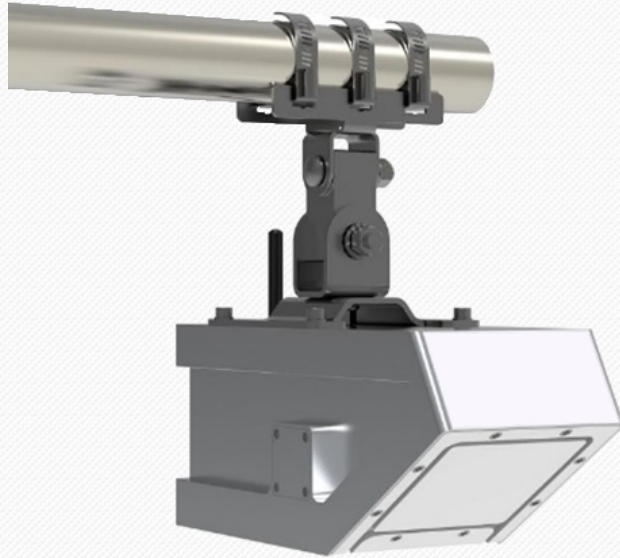
Measurement of Flow rate

- Transmission frequency: 24 GHz
- Range : 0.03-20 m/s
- Measuring Distance: 0-40m
- Accuracy: 0.01 m/s
- Measurement direction: Automatic recognition of water flow direction, built-in vertical angle correction

Measurement of Water Level

- Transmission frequency: 24 GHz
- Max. Measuring Distance: 40m
- Accuracy: $\leq \pm 3\text{mm}$
- RS232/RS485A, 4~20mA, 433MHz(Wireless transmission is optional.)

BT7360 RADAR Flow Meter



FEATURES

- Protection level: IP68
- Non-contact measurement combined with cross-sectional parameters to calculate flow rate is not affected by wind, temperature, fog, sediment, floating objects, etc
- Low power consumption, solar power supply, easy installation and maintenance free
- Working modes: manual, automatic, telemetry
- Working temperature: -30 °C -80 °C
- Working voltage: 5.5~32VDC

Applications:

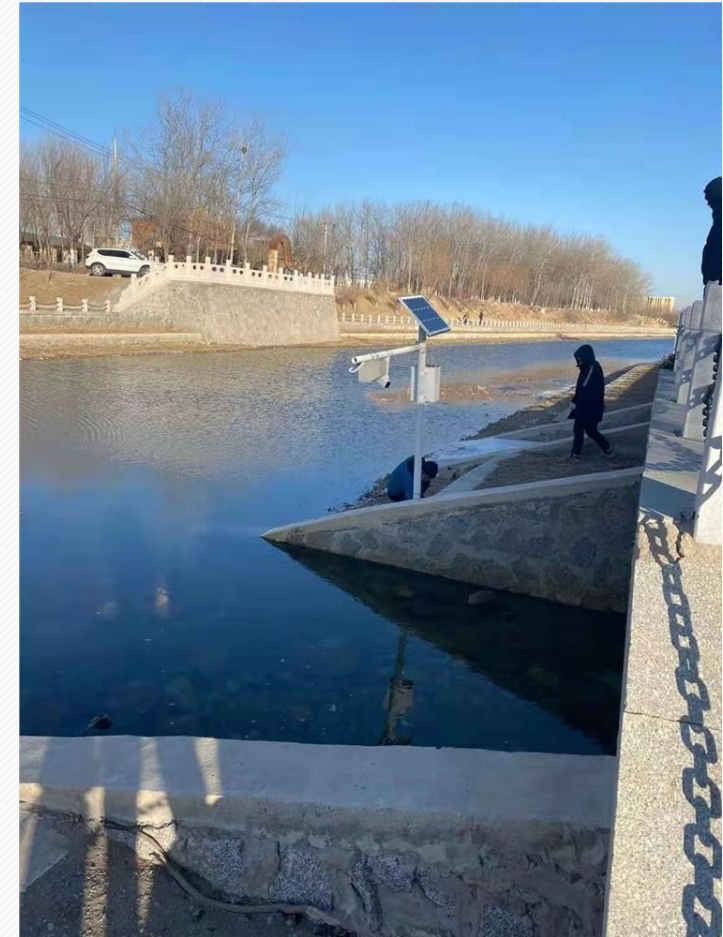
1. **Velocity, water level or flow measurement** of rivers, lakes, tides, reservoir gates, underground water pipe networks, irrigation canals, etc;
2. **Auxiliary water treatment operations**, such as urban water supply/sewage monitoring, etc;
3. **Flow calculation, inflow and outflow flow detection**, etc.

Product Display- Level

BT7360 RADAR Flow Meter

Application

Construction site in previous project



Flow Measurement

BT7600 Series Doppler Ultrasonic Flow Transmitter,
BT7100 Electromagnetic Flow Transmitter



BT7600 Series Doppler Flow Meter



FEATURES

- Working Principle: Acoustic Doppler method& velocity-area method
- 3 Functions: Measuring average **flow velocity**, **water depth**, **water temperature**, and displaying **cross-sectional flow rate**
- Collect a record every 10 minutes and store data for more than 6 months
- Especially suitable for flow monitoring in small and medium-sized open channels
- Widely used for flow monitoring in rivers, irrigation areas, and open channels

Accuracy: 0.02m/s-5m/s

Range: Many models, contact me for details.

Output: Rs485 Modbus/4-20mA

Protection level **IP68**

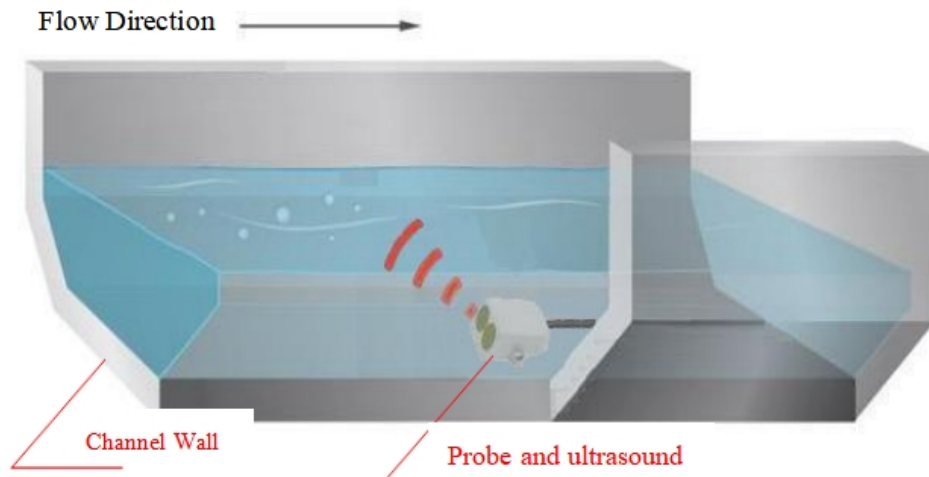
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Product Display- Flow

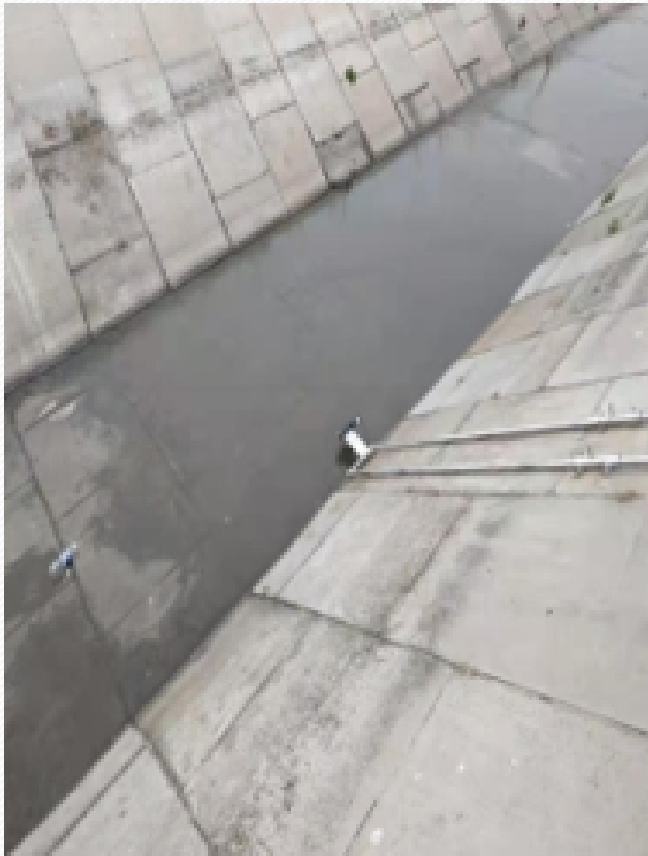
BT7600 Series Doppler Flow Meter

Application

Construction site in previous project



BT7600 Series Doppler Flow Meter

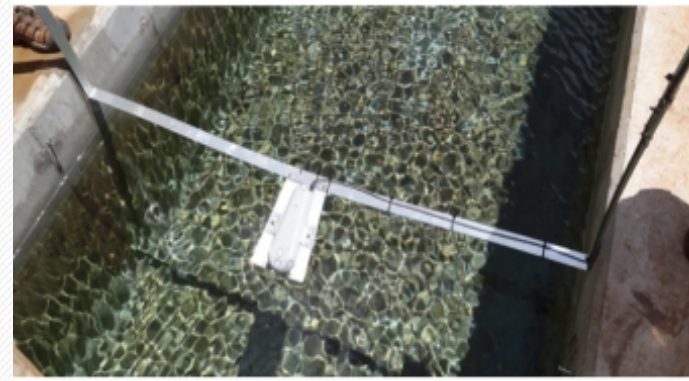


Application

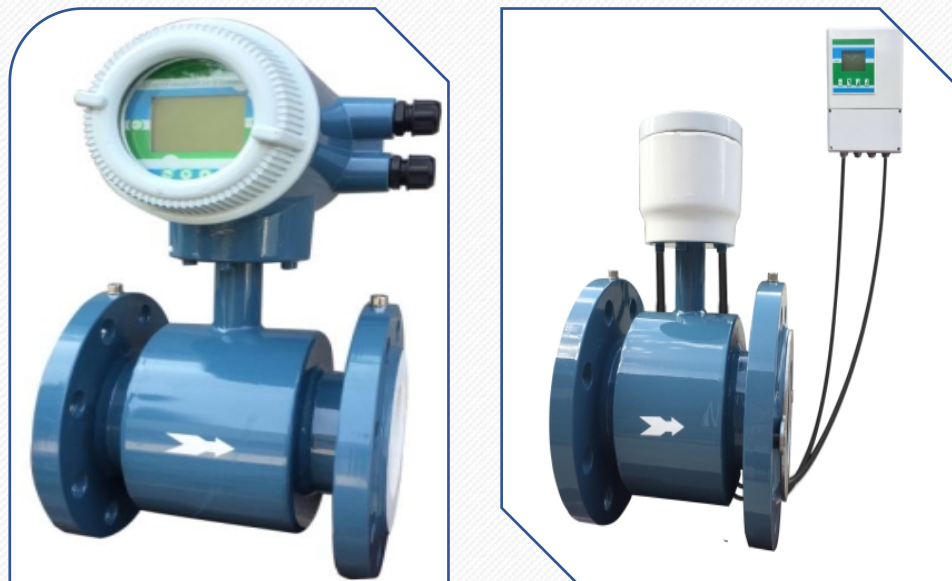
Construction site in previous project



活动支架安装



BT7100 Electromagnetic Flowmeter



Line Size: DN10~DN500

Installation form: Integrated / Split flange

Output: **RS232 / RS485**

If you need to get more details of model options, contact me and I will send the file to you.

FEATURES

- BT7100 can measure **volumetric flow rate**. The measurement of flow rate is not affected by changes in fluid density, viscosity, temperature, pressure, and conductivity.
- There are no obstructed flow or moving parts inside the measuring tube, which will not cause additional energy loss or blockage. Therefore, the **energy-saving effect is significant**, especially suitable for measuring liquid and solid two-phase flows such as sewage, mud, slurry, coal water slurry, pulp, etc.
- The sensor part only has the lining and electrodes in contact with the medium. As long as the electrode and lining materials are reasonably selected, **corrosion resistance and wear resistance can be achieved**,
- Low installation requirements
- Backlight and wide temperature-ranged Chinese/English LCD display.

Pressure Measurement

Pressure Transmitter: BT310 Series, BT320 Series, BT3288, BT3051, BT3600
Differential Pressure Transmitter: BT3051, BT4200



BT310 Series Digital Pressure Transmitter



FEATURES

- Surge and electromagnetic interference protection
- High precision, up to **0.05% F.S.** (linearity, repeatability, and hysteresis)
- High-precision compensation achieved via a mixed-signal microprocessor
- RS485 output with standard MODBUS-RTU protocol, compatible with DCS or PLC systems
- Low power consumption—approximately 4mA during full-speed operation—making it ideal for external battery-powered applications

BT320 Series Intelligence Pressure Transmitter



FEATURES

- Digital calibration
- Highly stable pressure sensing element
- High overload capacity and corrosion resistance
- Surge and EMI protection
- Reverse polarity and overvoltage protection
- Factory-calibrated; no potentiometer adjustment required; high reliability

BT3200 Intelligence Pressure Transmitter



FEATURES

- Accuracy: $\pm 0.25\% \text{F.S}$, $\pm 0.5\% \text{F.S}$ (Max.)
- Range: $-0.1 \sim 0 \sim 0.01 \dots 100 \text{MPa}$
- Output: $4 \sim 20 \text{mA}$ / $4 \sim 20 \text{mA} + \text{HART}$
- Anti surge and electromagnetic interference
- Reverse power protection, overvoltage protection
- Application: Widely used in fields such as oil and gas, chemistry, hydrology and water conservancy, geological exploration, etc.

BT3051S-Intelligent (Differential) Pressure Transmitter



Range: 100Pa to 60MPa (up to 60MPa)

Monocrystalline silicon Transmitters

EMC meets the requirements of GB/T

18268.1-2008 standard

FEATURES

- The central sensing unit of the **DP** transmitter adopts the world's leading high-precision silicon sensor technology, with an accuracy of $\pm 0.075\%$ and a maximum of $\pm 0.05\%$
- Optional encapsulated static pressure sensor, which can be used for measuring and displaying on-site working static pressure, as well as for static pressure compensation
- All stainless steel 316L silicone oil filled welding sealing structure
- Stable and reliable, with long-term drift of $\pm 0.1\%/3$ years, and maintenance free for 10 years

Product Display- Pressure

- BT3051S LD Type Differential Pressure
- Remote Transmission Transmitter



FEATURES

- Two wire system, **4-20mA DC output**, digital communication, programmable linear or flat
- Root square output method
- Upper limit value: +100% URL (continuously adjustable)
- Can communicate with handheld terminal HRM100Modem for parameter setting, process monitoring, etc
- Used to measure the liquid level, density, pressure, and flow rate of liquids, gases, or vapors
- Measurement **range**: Lower limit value: -100% URL (continuously adjustable)

Architecture design based on public cloud

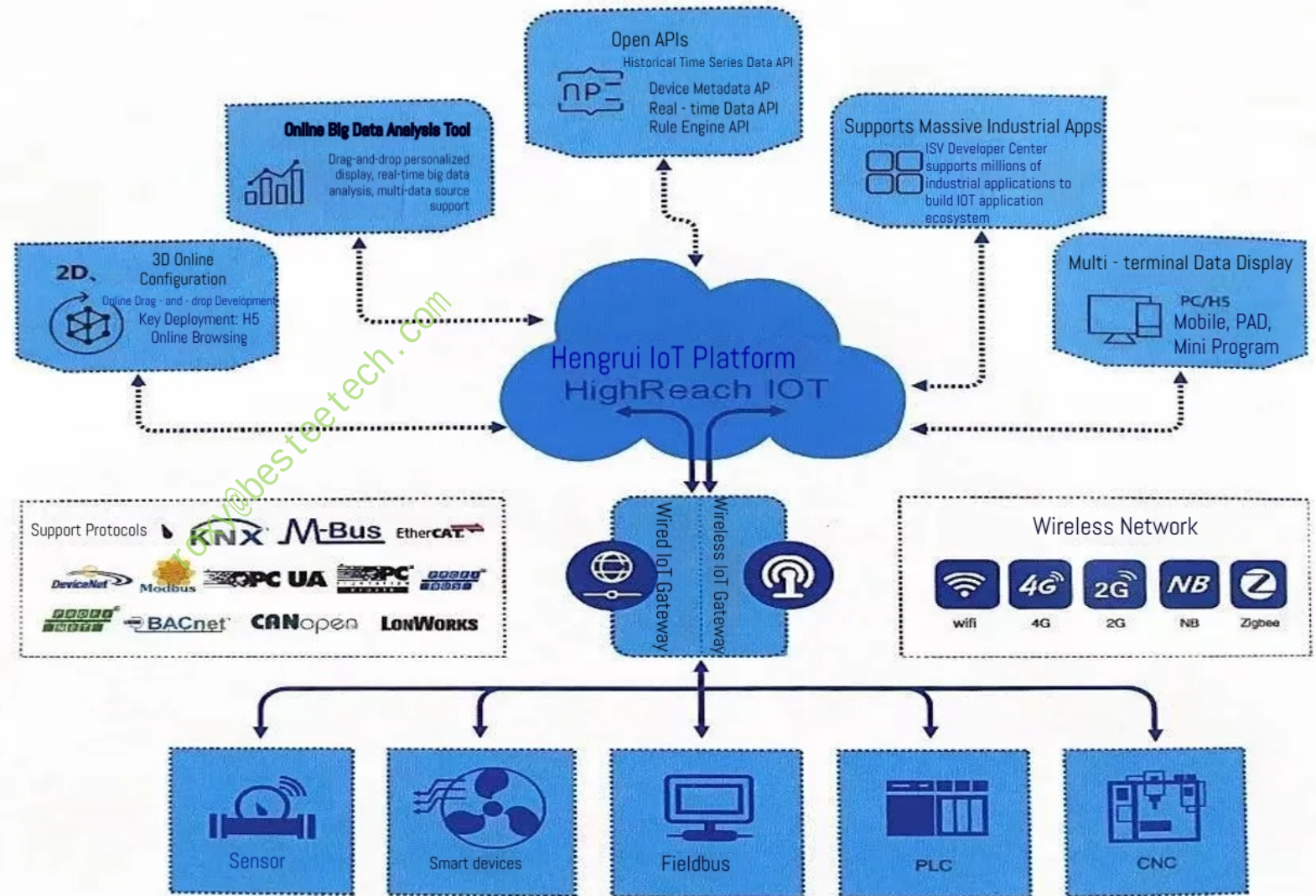
Realistic configuration development tools

Wide openness and universality in design

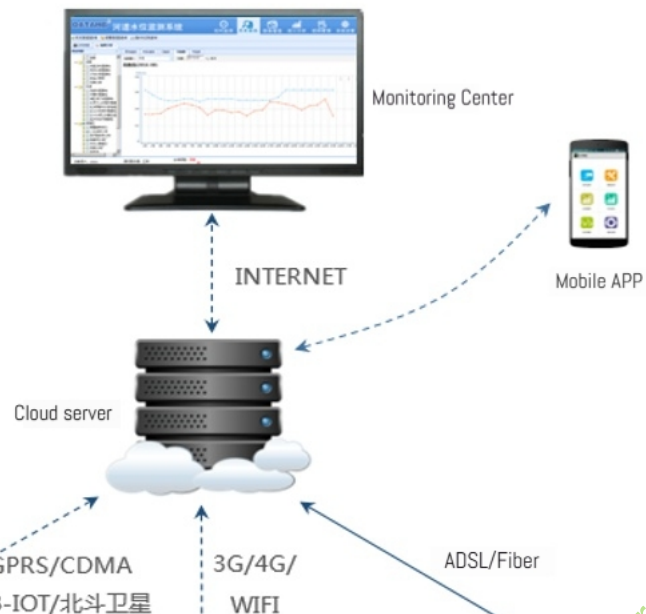
Support for time series databases

Big data chart development tools

Can be customized to any language.



双击编辑文字

NB-IOT/BeiDou
satellite

Water Level Monitoring Point (Ultrasonic)



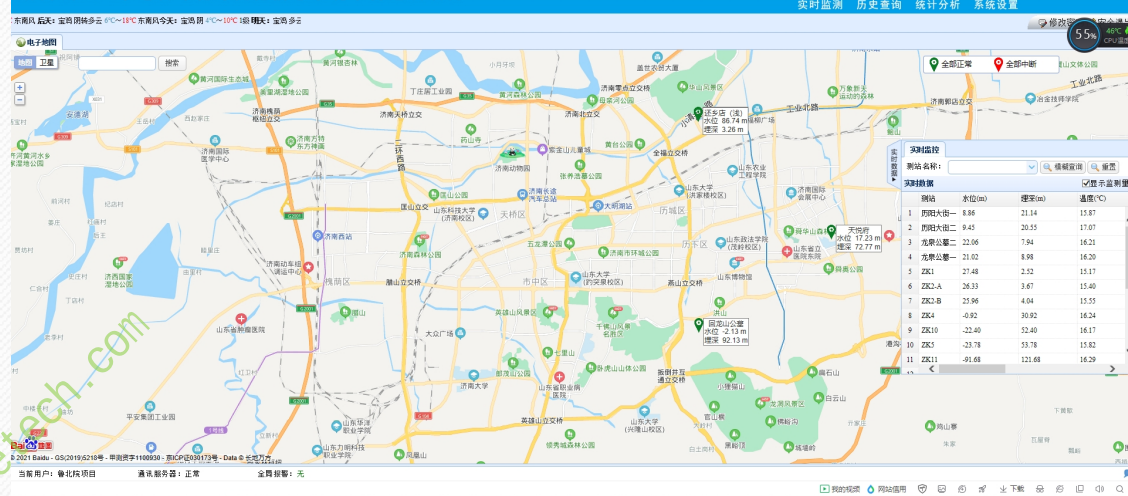
Water Level Monitoring Point (Radar)



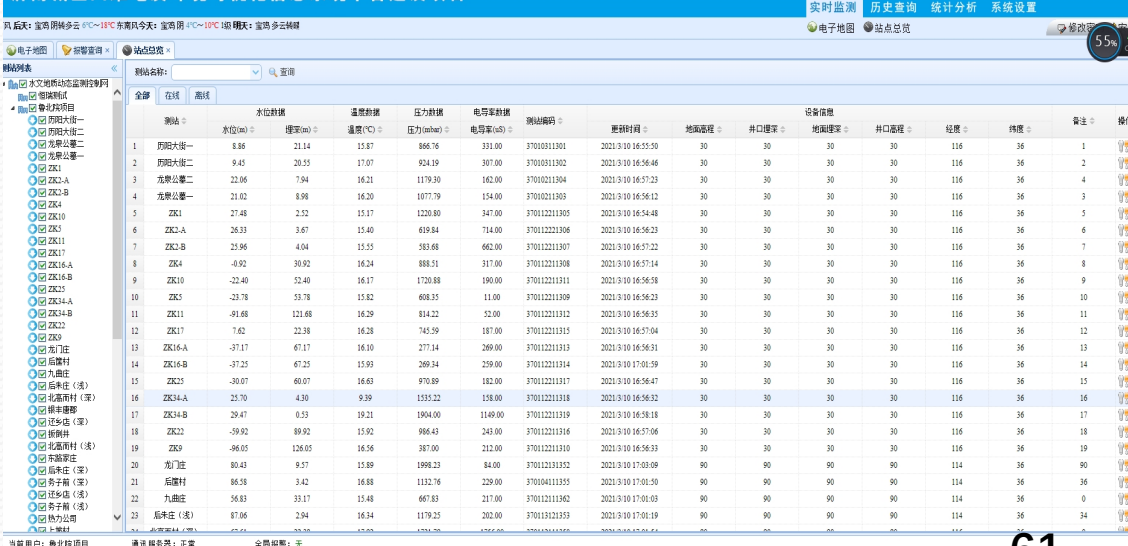
Water Level Monitoring Point (Submersible)

River Water Level Monitoring System Topology Diagram

济南城区四维地质环境可视化信息系统平台建设项目

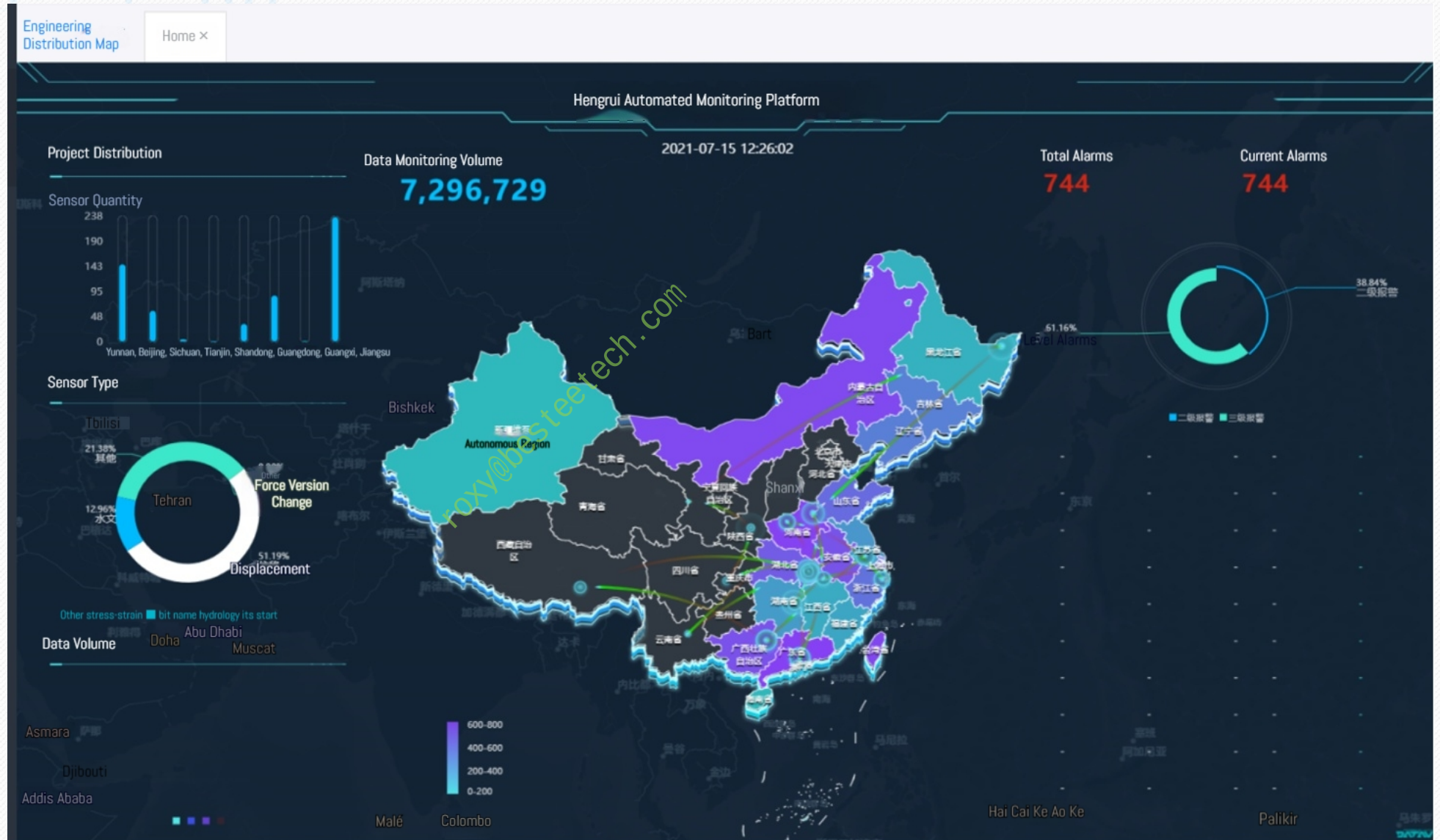


济南城区四维地质环境可视化信息系统平台建设项目

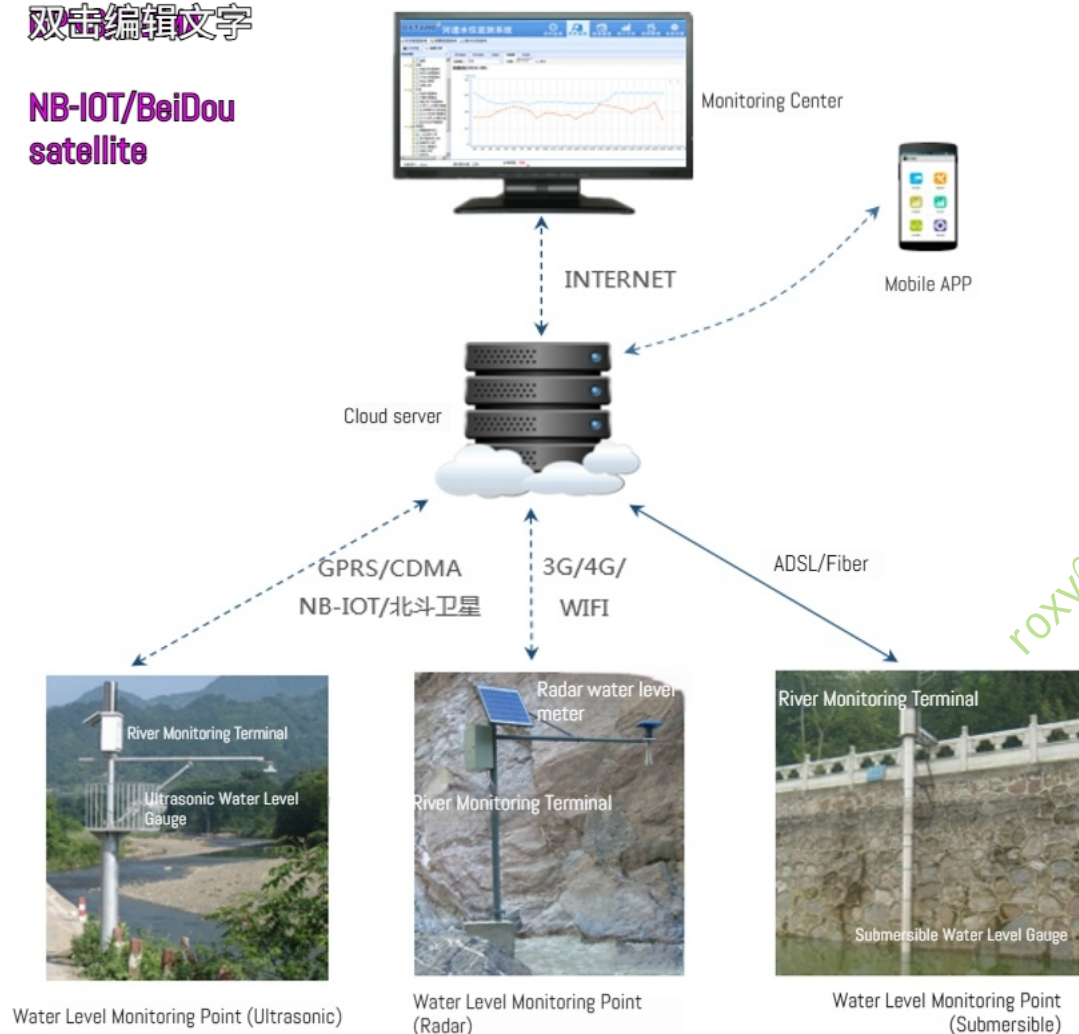


HighReach Automated Measurement Platform

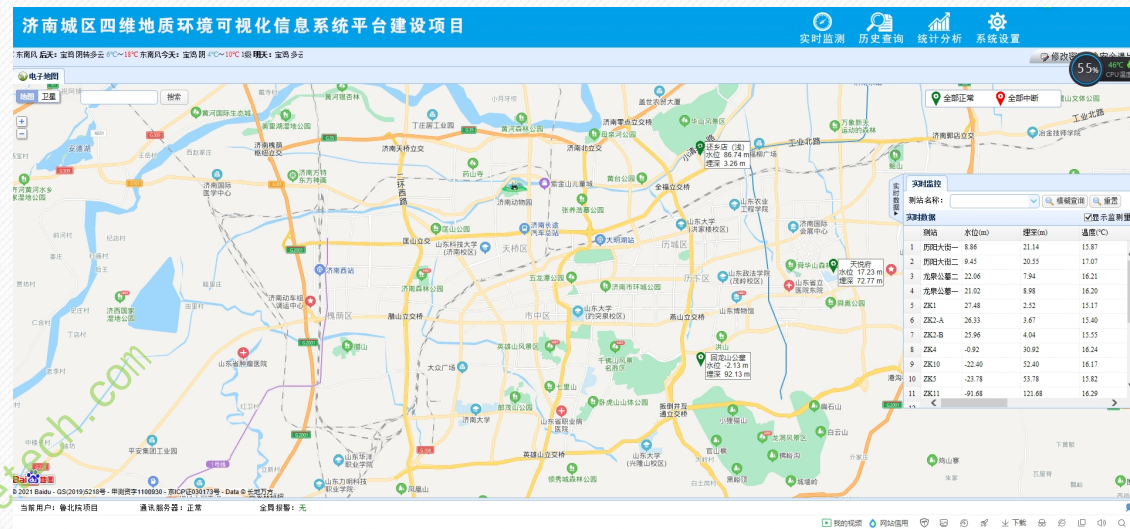
(Customizable)



双击编辑文字

NB-IOT/BeiDou
satelliteWater Level Monitoring Point
(Radar)

River Water Level Monitoring System Topology Diagram



济南城区四维地质环境可视化信息系统平台建设项目

风:后天:宝清阴间少云 0℃~18℃ 最高今天:宝清阴 1℃~10℃ 100%明天:宝清少云有雨

实时监测

历史查询

统计分析

系统设置

电子地图

站点总览

修改数据

55%

电子地图

报警管理

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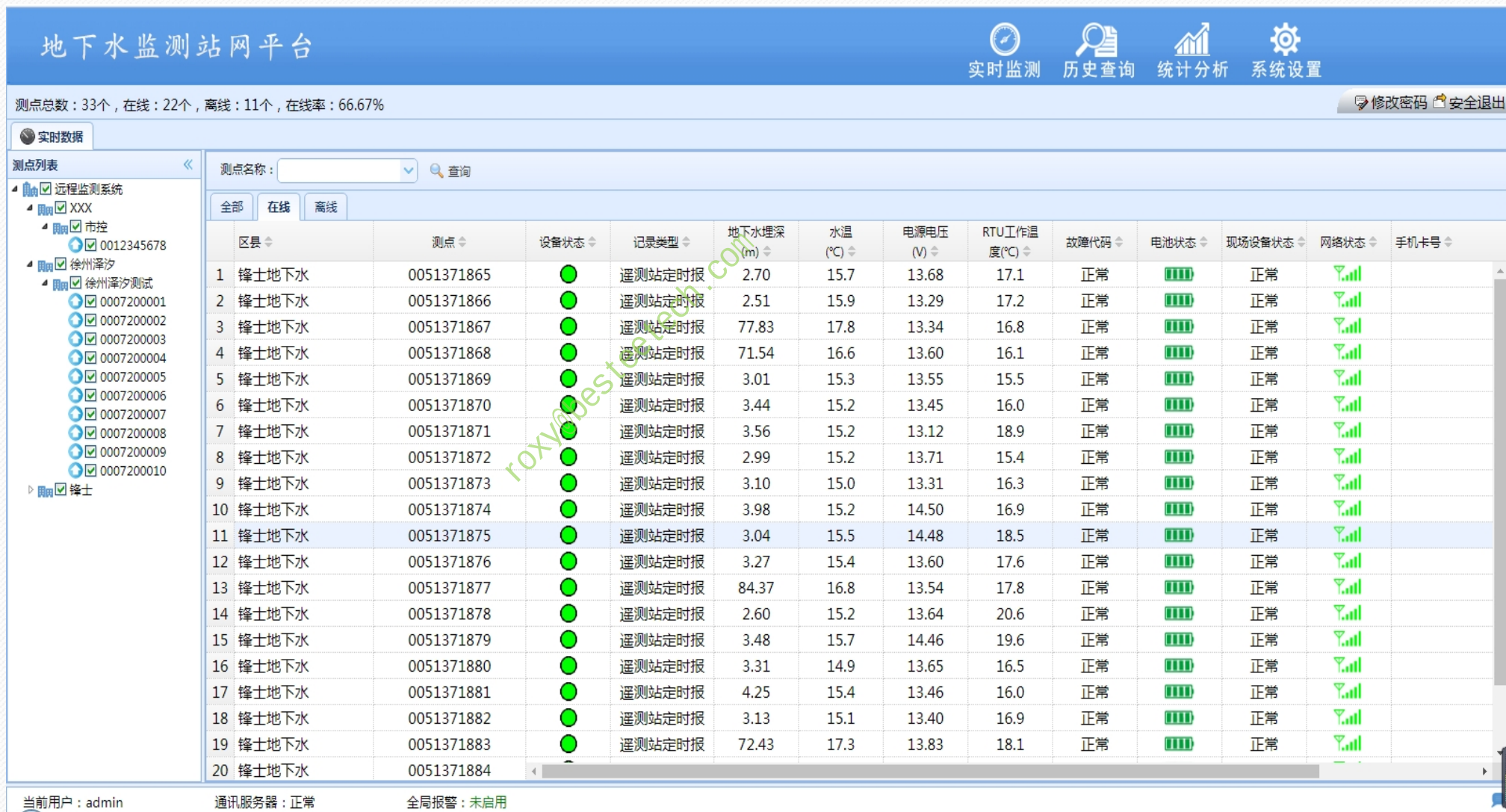
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Groundwater Monitoring Station Network Monitoring Platform

(Customizable)



Groundwater Monitoring Station Network Monitoring Platform

(Customizable)

地下水监测系统

admin 报警0

实时数据

报警数据查询

Q 输入关键字进行过滤

[-] [x] [y] 渗压/水位监测系统

[-] [x] [y] 郑州

[-] [x] [y] 郑州东站

[x] [y] K5

[x] [y] K1

[x] [y] K3

[x] [y] 测点1

[-] [x] [y] 安阳

[-] [x] [y] 超声波

[x] [y] 61311207001

[x] [y] 61311207002

[x] [y] 61311207003

[x] [y] 61311207004

[x] [y] 61311207005

[x] [y] 61311207006

[x] [y] 61311207007

[x] [y] 61311207008

[x] [y] 61311207009

[x] [y] 61311207010

[-] [x] [y] 三参量

[-] [x] [y] 光大环保 (中国) 环

[x] [y] J04

[x] [y] J04-1

[x] [y] J04-2

全部		在线		离线		水位计				流量			操作
序号	区域	测站	通讯状态	压力(MPa)	温度	水位(m)	电导率(uS)	水位埋深	瞬时(m3/h)	累计(m3)	流量计		
27	三参水位计	62910414001	●	0.00	0.00	0.00	0.00	10.00				操作	
28	三参水位计	62910414002	●	0.12	16.76	11.92	205.00	-1.92				操作	
29	三参水位计	62910414003	●	0.12	16.02	12.24	409.00	-2.24				操作	
30	三参水位计	62910414004	●	0.13	18.21	13.32	51.00	91.68				操作	
31	三参水位计	62910414005	●	0.10	18.60	10.25	59.00	-0.25				操作	
32	三参水位计	62910414006	●	0.12	16.57	11.81	689.00	-1.81				操作	
33	三参水位计	62910414007	●	0.12	15.97	12.30	502.00	-2.30				操作	
34	三参水位计	62910414008	●	0.12	16.24	12.37	1622.00	-2.37				操作	
35	三参水位计	62910414009	●	0.12	16.06	12.44	2397.00	-2.44				操作	
36	三参水位计	62910414010	●	0.12	16.80	11.93	196.00	-1.93				操作	
37	三参水位计	62910414011	●	0.11	17.20	11.56	384.00	-1.56				操作	
38	三参水位计	51371887	●	0.13	18.22	12.86	88.00	92.44				操作	
39	三参水位计	62910414013	●	0.12	16.61	12.38	2536.00	-2.38				操作	
40	三参水位计	62910414014	●	0.11	15.89	11.01	896.00	-1.01				操作	
41	三参水位计	62910414015	●	0.11	16.47	11.22	27129.00	-1.22				操作	
42	三参水位计	62910414016	●	0.11	16.68	11.56	235.00	-1.56				操作	

共 65 条 20条/页 1 2 3 4 前往 1 页

Application of RADAR Level Gauge

Measurement Solution for Irrigation Flow

Application of RADAR Flow Meter

Solutions for Urban Waterlogging

Measurement Solution for Open Channels
and Underground Pipeline Networks



4.1 Application of RADAR Level Gauge

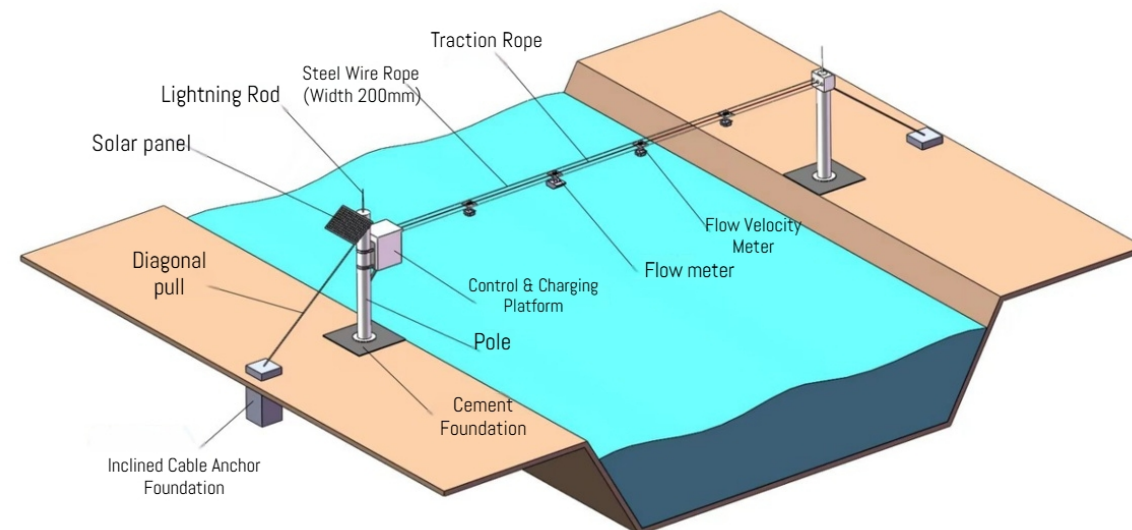
- Monitoring water levels in nature such as rivers, lakes, tides and reservoirs.
- Monitoring urban flooding or waterlogging during the flood season, such as low-lying areas and drainage outlets.
- Assisting in water treatment operations, such as urban water supply and sewage monitoring.
- Suitable for complex water environments with pollutants or sediment.
- The **60G and 120G** radar water level meters are particularly suitable for close-range detection scenes in underground pipe networks.
- As a monitoring terminal, build a monitoring network through multi-point monitoring to achieve flood season linkage warning.

4.1 Application of RADAR Level Gauge



Construction site of Yuquhe Pumped Storage Project in Xizang (one driven three radar flowmeter)

Engineering Concept Diagram



4.2 Application of RADAR Flow Meter

- Detection of natural river flow velocity, can be combined with water level detection for hydrological monitoring.
- Monitoring **urban flooding** during the flood season, such as low-lying areas and drainage outlets for monitoring water flow velocity and volume.
- Monitoring water flow velocity in various channels, culverts, and pipelines.
- As a monitoring terminal, it can be applied to hydrological tests, water resource monitoring, urban road flood control, flash flood early warning, and environmental pollution monitoring.



4.3 Measurement Solution for Irrigation Flow

- The field monitoring station is mainly composed of data acquisition terminal (RTU), radar flow detection equipment, rain gauge equipment, power supply equipment, and lightning protection equipment.
- The field data information is sent in real-time to the monitoring center via GPRS/GSM (or CDMA, 4G, fiber) networks.
- The central server is equipped with "Irrigation Flow Monitoring System" software to receive, store, display, analyze relevant data and information.



The software displays the measurement results in an intuitive manner on the WEB and mobile terminals, allowing users to understand real-time information such as water level, flow, rainfall, etc., and can query, statistics, and analyze historical data.

4.3 Measurement Solution for Irrigation Flow

- The system solution mainly consists of three parts: monitoring site, communication network, and monitoring center.
- The monitoring site is arranged according to the distribution of canals, with radar flowmeters used to obtain flow data.
- A monitoring point is set up in the main canal to monitor the overall flow rate of the main canal.
- The remaining monitoring points can be set up in the stable water flow section behind the gates of the branch canals, forming a monitoring system. Each monitoring data can be directly sent to the monitoring center, facilitating centralized scheduling of water usage. This enables scientific management and decision-making, avoiding waste of irrigation water in the irrigation area.



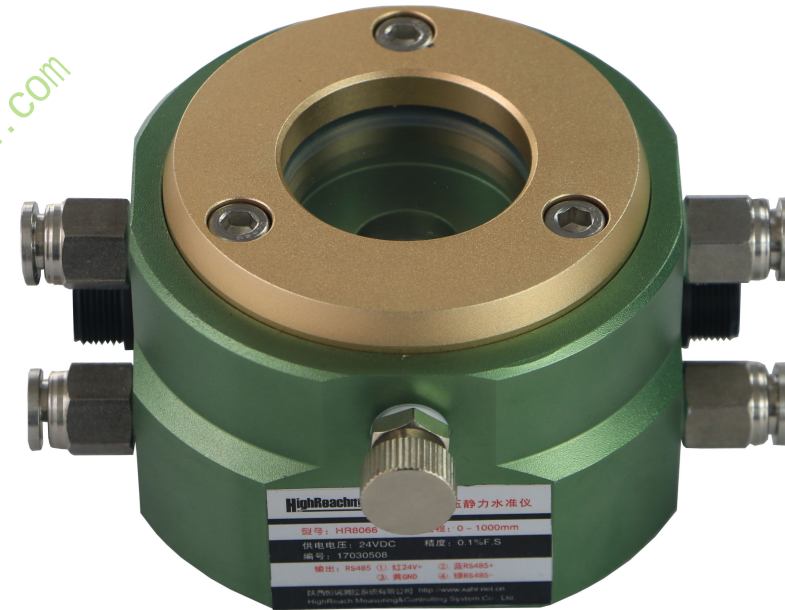
4.3 Measurement Solution for Irrigation Flow

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4.4 Solution for Ground Surface Settlement

To address the issue of settlement of ground subgrade structures, a high-precision differential pressure static level is adopted for long-term settlement deformation monitoring.



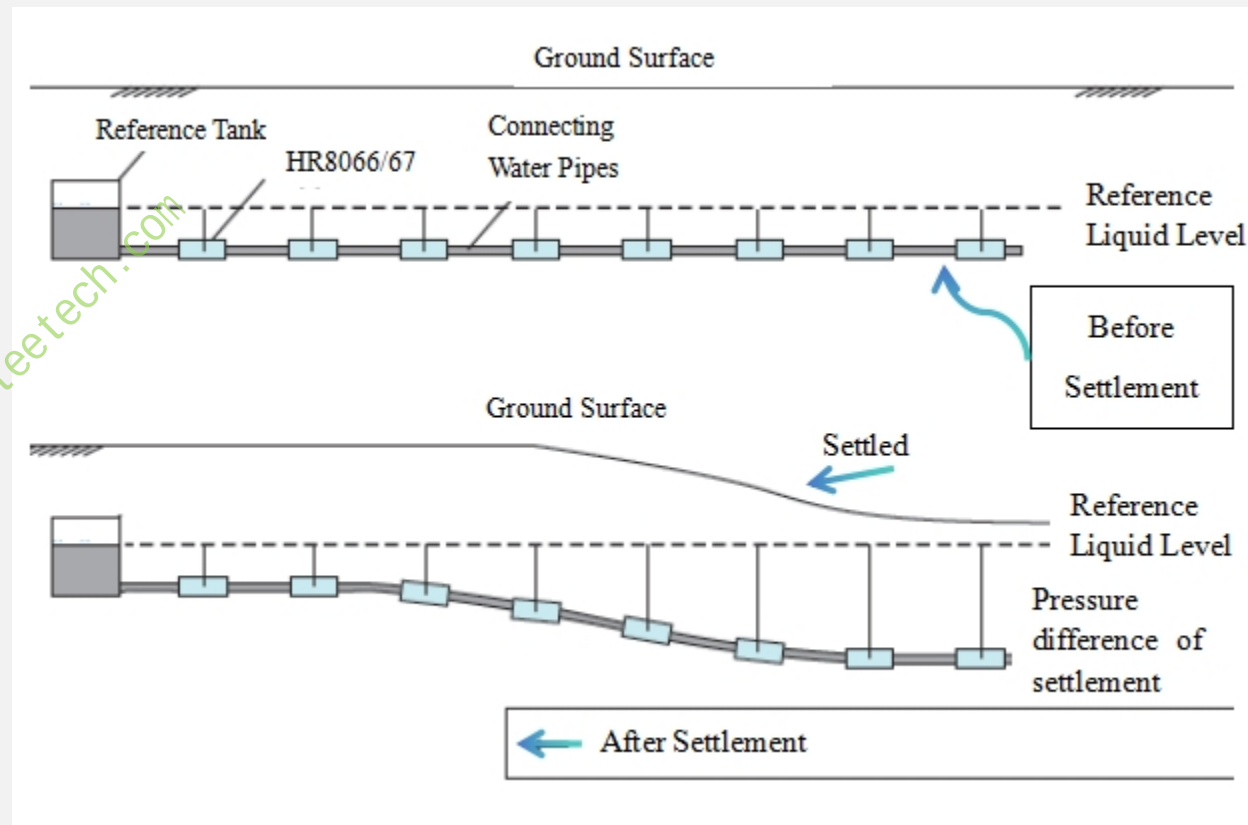
4.4 Solution for Ground Surface Settlement

Composition: Data collector, reference tank, static level, connecting water pipe, etc

*Install a static level along the monitoring line and connect it through a connecting water pipe to maintain the stability of the liquid level in the reference tank during the monitoring process.

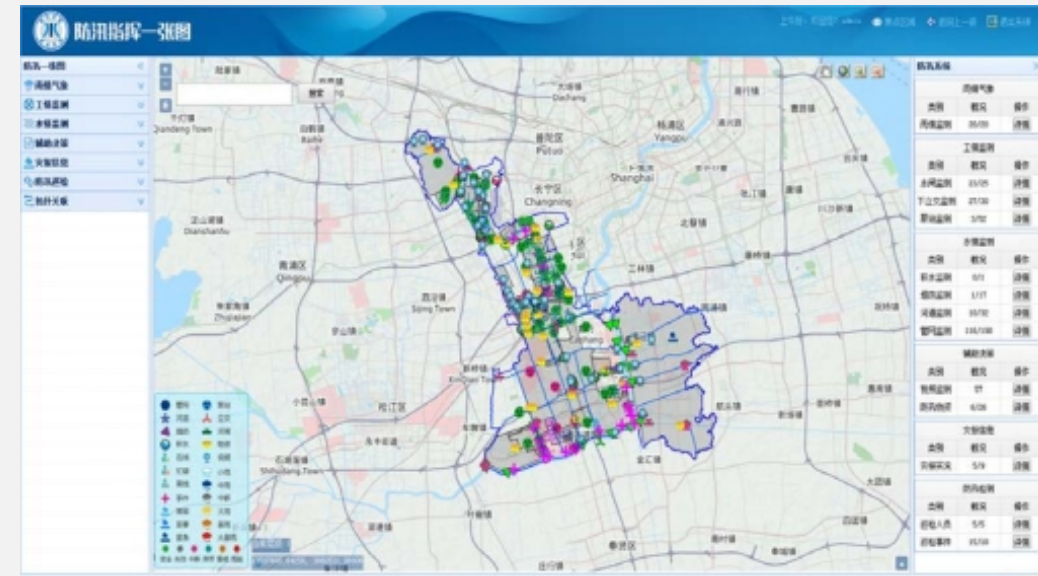
*If the monitoring line experiences settlement and drives the static level to settle, the pressure (liquid level) of the static level will change relative to the reference point.

*By comparing the data collected before and after, the vertical settlement of each point on the line can be calculated .



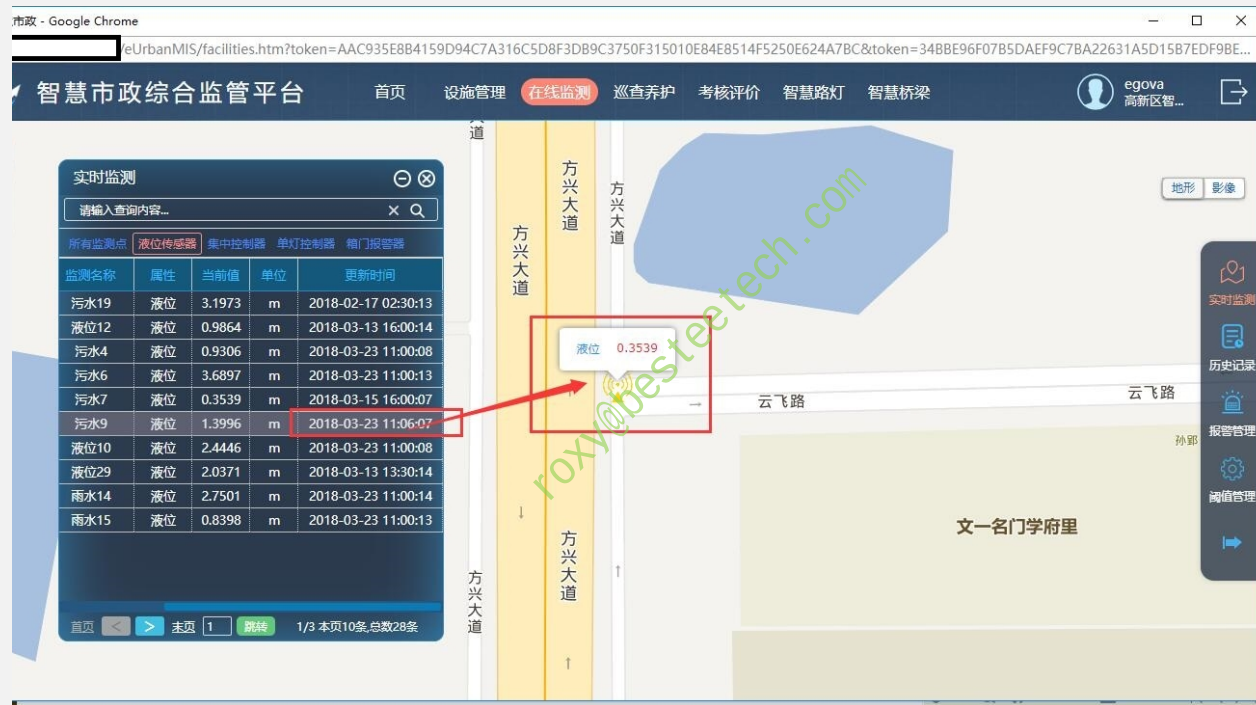
4.5 Solutions for Urban Waterlogging

- The monitoring terminal is mainly based on high-precision intelligent water level and flow velocity detectors based on micro-power radar technology.
- Real-time and efficient data collection of rainfall, urban river water levels, regional water accumulation depth, and flow velocities of various drainage outlets in underground pipelines, and the release of dynamic early warning information.
- Coordinate with relevant departments for centralized management and scheduling, and arrange timely and effective protective measures.
- Support remote management functions and enable remote parameter configuration and upgrades.
- Multiple communication methods: GPRS/CDMA/3G/4G as the primary transmission channels, with SMS as a backup transmission channel;
- Optional communication methods include Beidou, satellite, PSTN, shortwave, microwave, ZigBee, etc.



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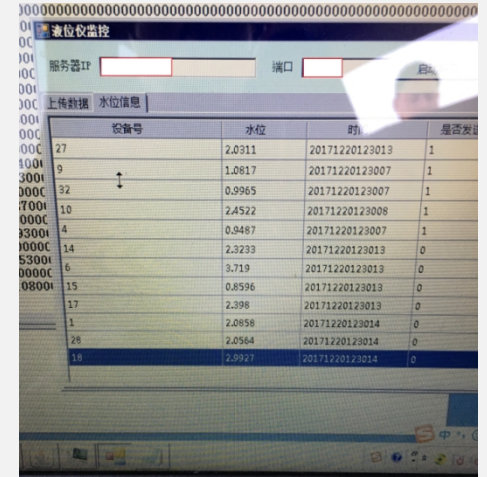
4.6 Measurement Solution for Underground Pipeline Networks



- Non-contact measurement, high accuracy, strong anti-interference capability.
- Low energy consumption, reducing battery maintenance costs.
- Remote upgrade function, convenient for maintenance.
- Intelligent recognition of water level changes, uploading dangerous water situation in real-time.
- Easy and convenient installation.

This solution is mainly used for underground liquid level detection in underground drainage wells, rainwater wells, and other underground networks. It integrates high-precision radar level gauges, wireless communication modules, low-power design, data storage, and other modules into one unit. It can operate for a long time in underground pipe networks and other special water environments.

It can help to grasp the operation status of the drainage system, conduct scientific scheduling, and reduce the pressure of drainage operation management.



4.7 Small automatic weather station (meteorological environment monitoring system)

Automatic weather stations are multi-factor automatic observation stations developed and produced in accordance with the meteorological observation standards of the International Meteorological Organization (WMO).

It can monitor conventional meteorological elements such as air temperature, air humidity, wind direction, wind speed, air pressure, rainfall, evaporation, light intensity, total radiation, etc.

It can operate automatically and normally all day in unmanned and harsh environments.

It can form a mesoscale meteorological monitoring network, with each automatic meteorological station serving as a sub station to transmit data to the central station, with functions such as automatic recording, exceeding limits, and data communication.

The automatic weather station system consists of two parts: hardware and software. The hardware consists of an integrated high-precision data collector, multiple sensors, brackets and protective boxes, and a solar power supply control system. The software includes a data receiving platform.



4.7 Small automatic weather station (meteorological environment monitoring system)

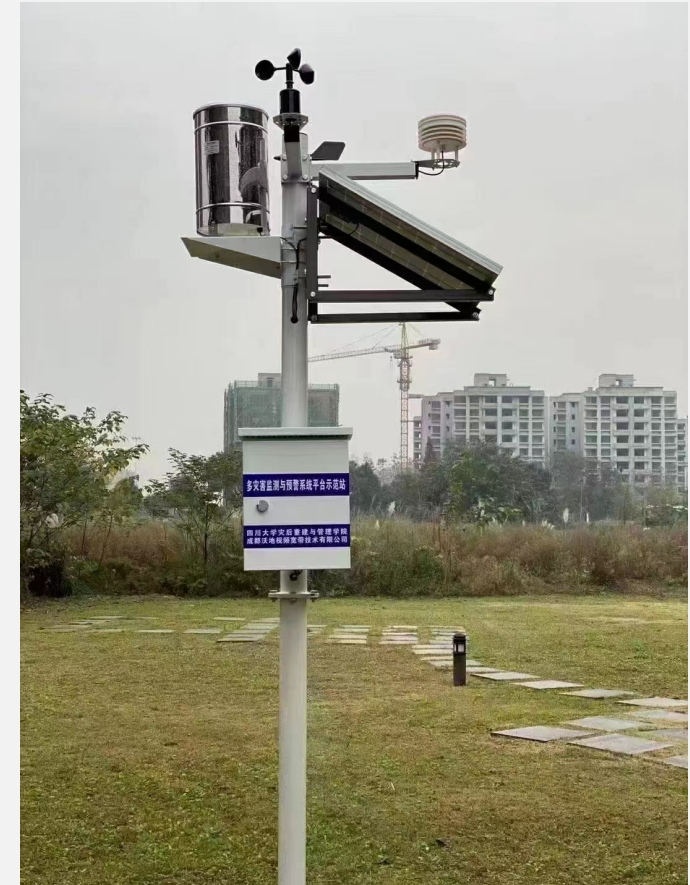
Meteorological data monitoring platform——

Data query function: supports the query, export, and printing of various real-time and historical data for any time period.

Data statistics function: supports single element

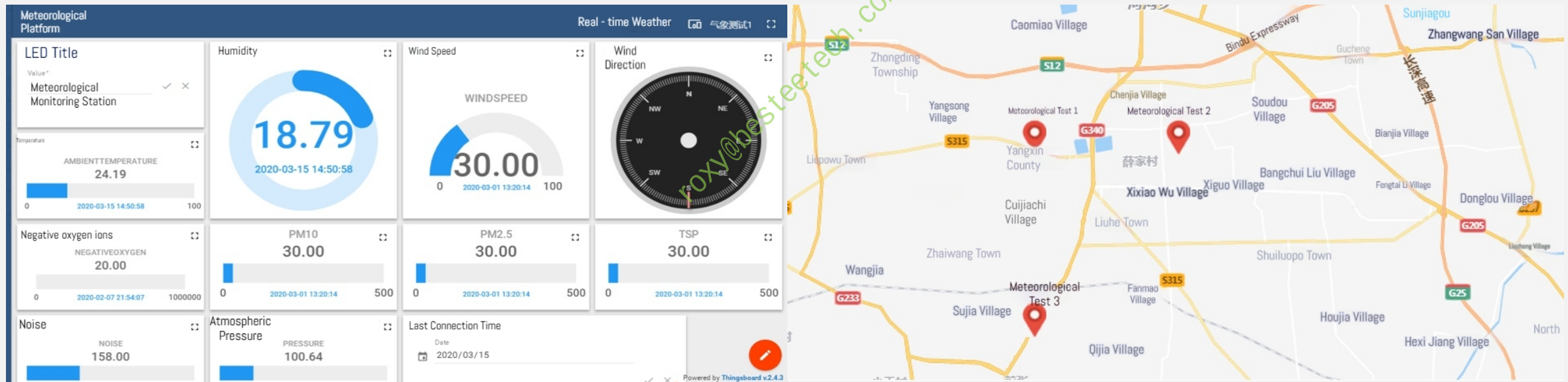
statistics function: can perform statistics on the maximum, minimum, and average values of a single element by year, month, day, hour, 10 minutes, or any time period.

Data chart function: Based on the collected data, real-time curves can be formed and presented in intuitive ways such as bar charts and pie charts.



4.7 Small automatic weather station (meteorological environment monitoring system)

Language and software support customization.





Shaanxi Besteetech Importing&Exporting Co. Ltd

Add: Weibin District, Baoji, Shaanxi Province

TEL./WA: +86 17794001501

Whats/Skype/Wechat: +86 17794001501

E-mail: roxy@besteetech.com

LinkedIn: [linkedin.com/in/goodluck~roxy](https://www.linkedin.com/in/goodluck~roxy)

Interested in how our transmitter can meet your specific needs? I'd be honored to provide more details and assist you further.



THANKS

roxy@besteetech.com

Shaanxi Besteetech Importing&Exporting Co. Ltd