

# INDUSTRIAL IoT & REMOTE MONITORING SOLUTIONS



*Smarter Monitoring  
for a Safer World*



Reliable  
Data Collection



Industrial IoT  
& Communication



Engineering  
Monitoring



OEM/ODM  
Customization



HU ENTROPY TECH  
IoT Monitoring, Smarter Future.

## Reliable Data Acquisition for Infrastructure & Engineering Monitoring

RTU • Vibrating Wire • IoT Gateway • OEM/ODM  
[www.huentropytech.com](http://www.huentropytech.com)



**HU ENTROPY TECH**

— IoT Monitoring, Smarter Future. —

深圳胡熵科技有限公司



# RTU-901H

## Industrial 4G Edge RTU with Video Overlay & Remote Telemetry

Integrating Sensor Data Acquisition, Video Monitoring, Edge Computing and IoT Connectivity for Remote Infrastructure Monitoring

### Product Overview

RTU=V-901H is an industrial-grade 4G Edge RTU designed for remote monitoring applications including water resources, flood warning, smart irrigation, environmental monitoring and infrastructure safety.

It integrates multi-channel data acquisition, video overlay (OSD), 4G communication, LoRa connectivity, edge computing and remote control functions into a compact and reliable industrial device.

With flexible interfaces and multiple protocol support, RTU-V-901H enables seamless integration with sensors, cameras and cloud-based monitoring platforms.

### Key Advantages

#### ① Real-Time Video + Data Integration

Display real-time sensor data directly on video streams through built-in OSD technology, enabling visual verification and traceable monitoring.

#### ② Multi-Protocol Industrial Connectivity

Supports Modbus RTU/TCP, MQTT, DTU mode and customized protocols for flexible system integration.

#### ③ Edge Computing Capability

Performs local data processing, calculation, filtering and alarm judgment to reduce communication load and improve system response.

#### ④ Reliable 4G & LoRa Communication

Supports 4G cellular networks, Ethernet and LoRa communication for remote sites with challenging connectivity conditions.

#### ⑤ Flexible Sensor Integration

Multiple interfaces including RS485, RS232, TTL, AI, DI, DO and relay outputs support various industrial sensors and field devices.



### Applications

- Water Resources Monitoring
- Flood Early Warning
- Smart Irrigation
- Dam Safety Monitoring
- Environmental Monitoring
- Geological Hazard Monitoring
- Remote Infrastructure Monitoring



#### River Water Level Monitoring

Real-time monitoring of water level, rainfall and flow data for flood forecasting and water resource management.



#### Smart Irrigation

Remote monitoring and control of irrigation systems through 4G telemetry and edge computing.





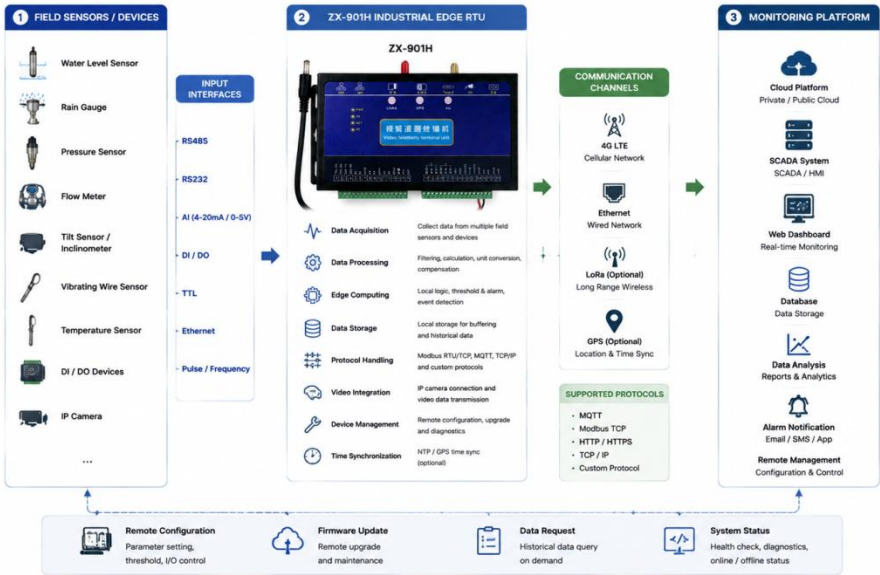
# RTU-901H Industrial Edge RTU

Integrated Data Acquisition and Telemetry Gateway for Remote Monitoring Applications

## ZX-901H Typical Data Flow

Sensors → ZX-901H → Monitoring Platform

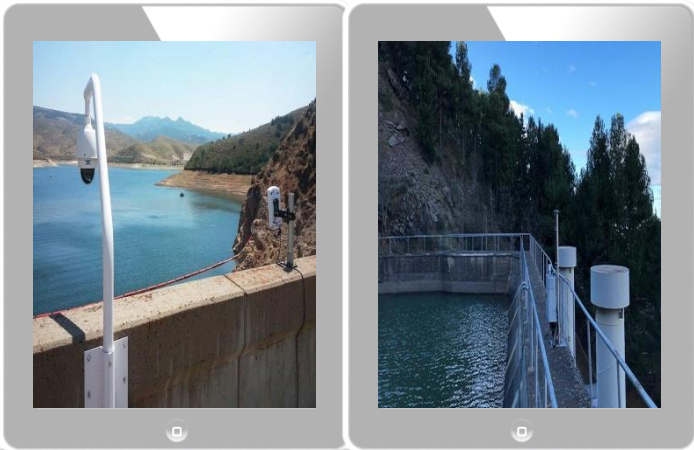
ZX-901H collects data from field sensors/devices, processes it locally, and transmits valuable information directly to monitoring platforms via wired or wireless networks.



Reliable Data Flow. Real-time Monitoring. Smarter Decisions.

### Dam Safety Monitoring

Integrates sensor data and video monitoring for real-time structural and environmental surveillance.



### Infrastructure Safety Monitoring

Continuous monitoring of bridges, slopes and critical infrastructure with real-time alerts and remote access.



## Contact

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## Why Choose HuEntropy

HuEntropy Tech specializes in industrial IoT devices and remote monitoring solutions. Our engineering team has nearly 10 years of experience in RTU, data acquisition and monitoring technologies.

## Technical Highlights

| Feature               | Specification               |
|-----------------------|-----------------------------|
| Processor             | Industrial-grade 32-bit MCU |
| Operating Voltage     | 9-32V DC                    |
| Communication         | 4G LTE / Ethernet / LoRa    |
| Data Interfaces       | RS485 / RS232 / TTL         |
| Analog Input          | 4-20mA                      |
| Digital I/O           | DI / DO / Relay             |
| Protocols             | Modbus RTU/TCP, MQTT, DTU   |
| Storage               | Local Data Logging          |
| Operating Temperature | -40°C to +85°C              |

## OEM & ODM Available

Customized Hardware  
Firmware Development  
Protocol Integration  
Application Support



RTU-900H

## Industrial IoT RTU Reliable Remote Monitoring & Telemetry Solution

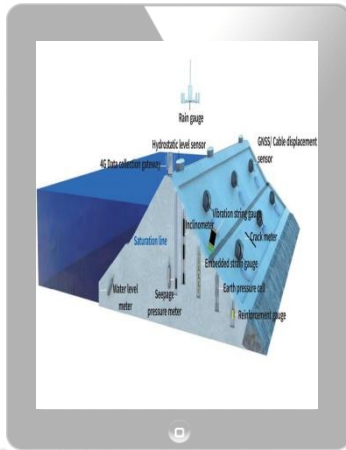
Designed for water resources, environmental monitoring, dams, reservoirs, irrigation, flood warning, smart cities, and industrial automation.

### One RTU for Multiple Applications

Irrigation Automation  
Landslide & Geotechnical Monitoring  
Meteorological Monitoring  
Remote Pump Station Control  
River & Flood Early Warning  
Reservoir Water Level Monitoring



RTU-900H-TFT



**4G / Ethernet / LoRa**  
Flexible Connectivity



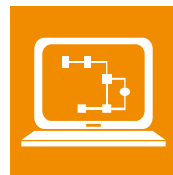
**Edge Computing**  
Local Processing & Alarm Logic



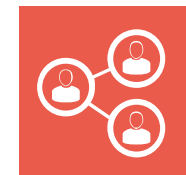
**Multi-Protocol Support**  
Modbus · MQTT ·



**Data Logging**  
Store-and-Forward



**24 Programmable Channels**  
Flexible I/O Configuration



**Industrial Reliability**  
-40°C to +85°C · Wide Voltage

### Designed for System Integrators & OEM Partners

OEM / ODM Available  
Private Protocol Customization  
Cloud Platform Integration  
Fast Technical Support



# RTU-900H

## Industrial IoT RTU Reliable Remote Monitoring & Telemetry Solution

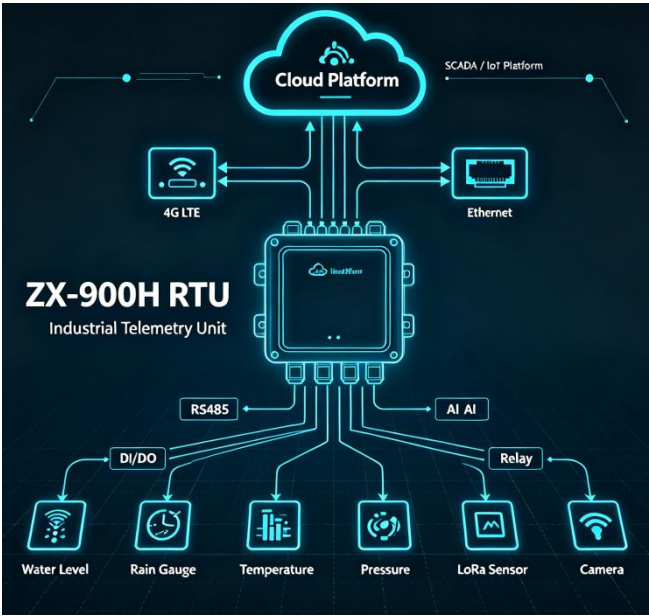
### Flexible Connectivity

- 4G LTE
- Ethernet
- LoRa
- RS485 ×3
- RS232
- TTL
- DI / DO
- AI
- Relay

### Supports Major Protocols

- Modbus RTU
- Modbus TCP
- MQTT
- HJ212
- SL651
- SL/T427
- Custom Protocol

**Built for Harsh Environments**  
Industrial-grade Design  
9–32VDC Wide Voltage  
-40°C to +85°C  
Lightning Protection  
ESD Protection  
Reliable Long-term Operation



| Item                  | Value                           |
|-----------------------|---------------------------------|
| Communication         | 4G / Ethernet / LoRa            |
| Interfaces            | RS485×3, RS232, TTL, AI, DI, DO |
| Protocols             | Modbus, MQTT, HJ212, SL651      |
| Operating Voltage     | 9–32VDC                         |
| Operating Temperature | -40°C ~ +85°C                   |
| Storage               | 16MB + TF Card                  |
| Edge Computing        | Yes                             |
| Data Logging          | Yes                             |

### Why Choose HUENTROPY

- ✓ Nearly 10 Years of RTU Development Experience
- ✓ Fast OEM & ODM Service
- ✓ Competitive Pricing
- ✓ Stable Firmware
- ✓ Flexible Protocol Customization
- ✓ Professional Technical Support

### Contact

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RTU-800H

## Industrial 4G Remote Terminal Unit (RTU)



Compact Data Acquisition & Remote Monitoring Solution for Industrial IoT Applications

### Why Choose RTU-800H-4G

- ✓ Cost-effective industrial RTU solution
- ✓ Stable communication for remote locations
- ✓ Flexible customization for OEM projects
- ✓ Compatible with various industrial sensors
- ✓ Suitable for system integrators and IoT solutions providers

## APPLICATION SCENARIOS



#### 1. Water Level Monitoring

Real-time monitoring of water levels in rivers, lakes, reservoirs and channels.



#### 2. Industrial Equipment Monitoring

Monitor the status of pumps, motors, valves and other equipment for predictive maintenance.



#### 3. Environmental Monitoring

Collect and transmit data such as air quality, temperature, humidity, noise, and more.



#### 4. Hydrological Monitoring

Rainfall, flow rate, water quality and other hydrological data collection and reporting.



#### 5. Remote Control Systems

Remote control of gates, valves, pumps and other field devices via network.



#### 6. Industrial IoT Platforms

Seamless connection to cloud platforms for data visualization, analysis and alerts.



ZX-800H

## Industrial 4G Remote Terminal Unit (RTU)



Compact Data Acquisition & Remote Monitoring Solution for Industrial IoT Applications

### Key Features

- ✓ 4G Cellular Communication  
Reliable wireless data transmission for remote sites.
- ✓ Multi-Protocol Support  
Supports MQTT, Modbus, HJ212, SL651 and transparent transmission mode.
- ✓ Flexible Data Acquisition  
Supports RS485 devices and multiple Modbus sensors.
- ✓ Store-and-Forward Function  
Automatically saves and uploads data after network recovery.
- ✓ DIN-Rail Installation  
Compact design for easy industrial integration.
- ✓ Wide Voltage Input  
9–36V DC power supply suitable for various field environments.

### Product Overview

The ZX-800H-4G is a compact industrial RTU designed for remote data acquisition, telemetry and equipment monitoring applications.

With 4G cellular communication, RS485 interface and flexible protocol support, it enables reliable data transmission between field devices and cloud platforms.

The device is ideal for water monitoring, environmental monitoring, industrial automation and IoT applications.

| Parameter        | Specification                 |
|------------------|-------------------------------|
| Communication    | 4G CAT1                       |
| Serial Interface | RS485 / RS232 / TTL           |
| Protocol         | MQTT / Modbus / HJ212 / SL651 |
| Digital Input    | 1 Channel                     |
| Digital Output   | 1 Channel                     |
| Storage          | 16 MB                         |
| Power Supply     | 9–36V DC                      |
| Installation     | 35mm DIN Rail                 |
| Temperature      | -40°C ~ +85°C                 |

### Shenzhen Hu Entropy Tech Co., Ltd.

Industrial IoT & Remote Monitoring Solutions

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RTU-AC04

## Industrial Video & IoT Data Fusion Gateway

Turn Any IP Camera into a Real-Time Video Telemetry System



### Connect Video, Sensors and Industrial Data into One Visual Platform

Traditional monitoring systems separate video streams from sensor data. Operators often need to switch between CCTV systems, SCADA platforms and monitoring software to understand site conditions.

The AC04 bridges this gap by overlaying real-time sensor data directly onto IP camera video streams, creating a unified **Video + IoT Data Fusion** solution.

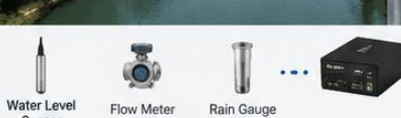
## AC04 Industrial Video & IoT Data Fusion Gateway

Turn Any IP Camera into a Real-Time Video Telemetry System

### TYPICAL APPLICATIONS

#### 1. Water & Hydrology Monitoring

Water Level : 2.35 m  
Flow Velocity : 1.28 m/s  
Flow Rate : 15.62 m<sup>3</sup>/s  
Rainfall : 12.4 mm  
Time : 2025-05-20 10:30:45



Real-time display of hydrological data to support flood control, water resource management and remote operation.

#### 2. Dam & Reservoir Safety Monitoring

Water Level : 126.8 m  
Seepage Pressure : 0.18 MPa  
Displacement : 12.6 mm  
Pore Pressure : 0.32 MPa  
Time : 2025-05-20 10:30:45



Overlay key dam and reservoir parameters on video for comprehensive safety assessment.

#### 3. Geotechnical & Landslide Monitoring

GNSS Displacement : 23.4 mm  
Crack Width : 2.8 mm  
Tilt Angle : 3.25 °  
Soil Moisture : 18.7 %  
Time : 2025-05-20 10:30:45



Integrate geotechnical sensor data into video for early warning and disaster prevention.

#### 4. Smart Buildings

Floor : 12  
Direction : Up  
Load : 68 %  
Door Status : Closed  
Time : 2025-05-20 10:36:45



Monitor elevators, machine rooms and environments with real-time data overlay for safer building management.

#### 5. Power & Energy Facilities

Voltage : 10.25 kV  
Current : 125.6 A  
Power : 2.23 MW  
Temperature : 36.5 °C  
Time : 2025-05-20 10:30:45



Visualize power parameters and equipment status in real time for efficient O&M.

#### 6. Industrial Remote Monitoring

Pressure : 0.62 MPa  
Temperature : 78.6 °C  
Valve Status : Open  
Pump Status : Running  
Time : 2025-05-20 10:30:45



Integrate PLC/RTU and sensor data with video for remote monitoring of industrial sites.



Native Camera OSD  
No Video Quality Loss



Wide Camera Compatibility  
ONVIF & Private Protocols



Multiple Interfaces  
RS485 / TTL / Ethernet



Easy Integration  
Plug & Play

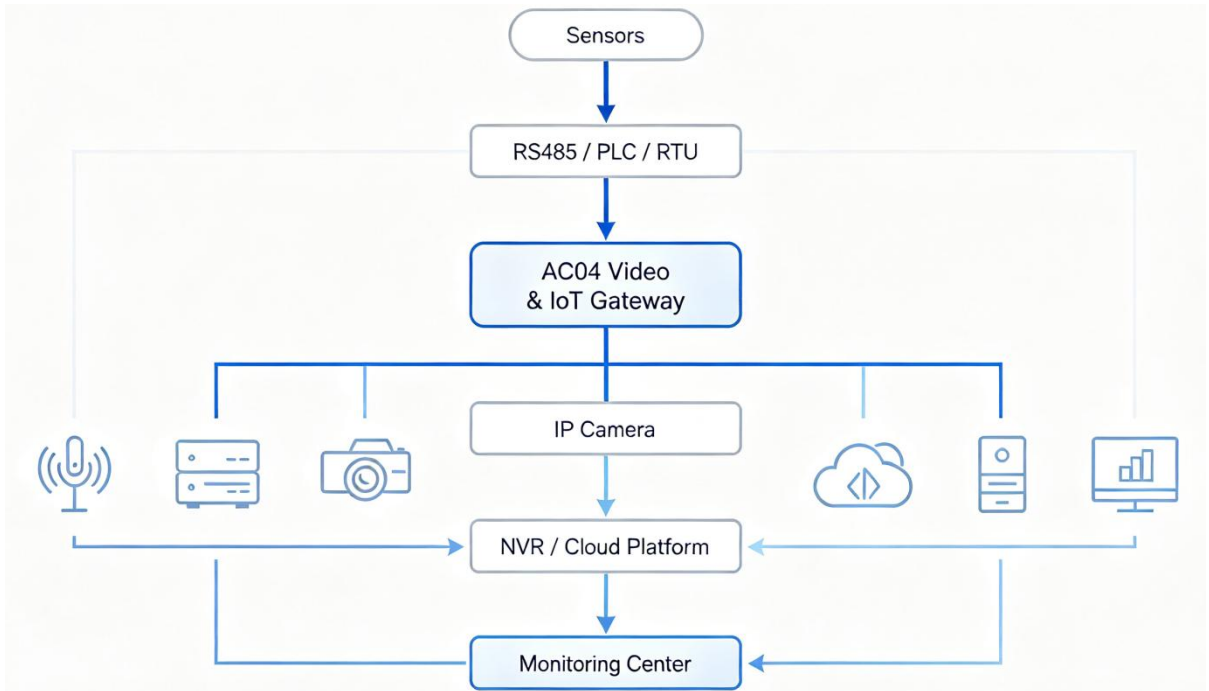


Industrial Grade  
-40°C ~ 85°C Operation



RTU-AC04

## Industrial Video & IoT Data Fusion Gateway



### Designed for System Integrators

The AC04 is designed as a flexible integration module for:

- ✓ SCADA solution providers
- ✓ Industrial IoT companies
- ✓ Monitoring system integrators
- ✓ Automation companies
- ✓ OEM partners

### Why Partner With Us?

#### OEM / ODM Capability

We provide:

- ✓ Hardware customization
- ✓ Protocol customization
- ✓ Application-specific solutions
- ✓ Technical support

#### For Global Partners

We are looking for:  
System Integrators  
Distributors  
Solution Providers  
OEM Partners

### Powerful Integration Capability

#### Camera Compatibility

Supports mainstream IP camera brands:

Hikvision  
Dahua  
Uniview  
Huawei  
Tiandy  
Other ONVIF-compatible cameras

#### Industrial Data Acquisition

Supports:

RS485 sensors  
Modbus RTU devices  
PLC equipment  
Custom communication protocols

#### Multi-Industry Deployment

One gateway can support multiple monitoring scenarios:  
Flood warning systems  
Dam safety monitoring  
Landslide early warning  
Smart infrastructure  
Industrial automation

### Shenzhen Hu Entropy Tech Co., Ltd.

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VW-201

## Single-Channel Vibrating Wire Data Acquisition Module

Reliable Data Acquisition for Geotechnical & Structural Health Monitoring

Designed for OEM integration into automated monitoring systems.



### APPLICATIONS

Ideal for a wide range of geotechnical and structural health monitoring applications



#### Foundation Pit Monitoring

Monitor retaining walls, struts and ground movements



#### Bridge Monitoring

Monitor stress, strain and displacement of bridges



#### Tunnel Monitoring

Monitor tunnel deformation, stress and water pressure



#### Slope Monitoring

Monitor slope stability and landslide risks



#### Dam Monitoring

Monitor dam deformation, seepage and water level



#### Structural Health Monitoring

Monitor buildings and critical infrastructure structures





# VW-201

## Single-Channel Vibrating Wire Data Acquisition Module

### Easy Integration

Standard Modbus RTU  
RS485  
OEM Firmware  
Custom Protocol

### Key Features

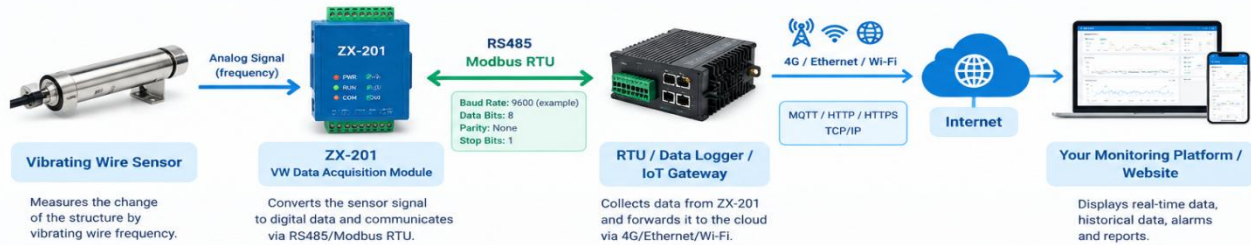
- ✓ **FFT-based Frequency Measurement**  
Accurate resonance frequency detection with excellent repeatability.
- ✓ **High Stability & Fast Measurement**  
Optimized signal processing provides reliable field performance and fast acquisition response.
- ✓ **Wide Sensor Compatibility**  
Compatible with vibrating wire sensors including piezometers, strain gauges, load cells and displacement sensors.
- ✓ **Easy System Integration**  
RS485 interface with standard Modbus RTU protocol for integration with RTUs, gateways and monitoring platforms.
- ✓ **OEM / ODM Support**  
Custom firmware, communication protocols and hardware integration available.

| Parameter                          | Specification                        |
|------------------------------------|--------------------------------------|
| Measurement Type                   | Vibrating Wire Frequency Measurement |
| Channel                            | 1 Channel                            |
| Frequency Accuracy                 | ≤ 1 Hz                               |
| Frequency Resolution (Theoretical) | 0.03 Hz                              |
| Excitation Method                  | Automatic Signal Excitation          |
| Measurement Time                   | ≤100 ms                              |
| Communication Interface            | RS485                                |
| Communication Protocol             | Modbus RTU                           |
| Supply Voltage                     | 7–30 VDC                             |
| Power Consumption                  | Approx. 30 mA                        |
| Operating Temperature              | -20°C ~ +60°C                        |
| Protection                         | Industrial-grade Design              |

**OEM Monitoring Hardware Partner**  
Vibrating Wire Data Acquisition Modules  
Remote Monitoring RTUs  
MEMS Tilt Sensors  
IoT Gateways  
Custom Embedded Solutions

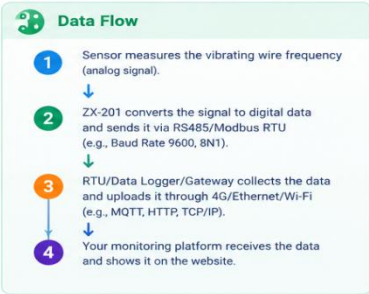
### System Architecture From Sensor to Your Monitoring Website

ZX-201 collects data from the vibrating wire sensor and transmits it to your monitoring platform through RS485/Modbus RTU, then via 4G/Ethernet to your website.



| Key Communication Parameters |                                                        |
|------------------------------|--------------------------------------------------------|
| Parameter                    | Description                                            |
| Baud Rate                    | Communication speed (e.g., 9600, 19200, 38400, 115200) |
| Data Bits                    | Number of data bits (usually 8)                        |
| Parity                       | Error check (None, Even, Odd)                          |
| Stop Bits                    | End of data (usually 1)                                |
| Slave Address                | Device address (e.g., 1)                               |
| Protocol                     | Modbus RTU (RS485)                                     |

Important: The ZX-201 and your RTU must use the same communication parameters to ensure normal data exchange.



| Key Advantages              |                                                                                        |
|-----------------------------|----------------------------------------------------------------------------------------|
| High Accuracy               | Frequency accuracy ≤ 1 Hz, high resolution.                                            |
| Reliable Communication      | RS485/Modbus RTU, stable and widely used.                                              |
| Flexible Integration        | Supports 4G, Ethernet, Wi-Fi, MQTT, HTTP, API, compatible with your existing platform. |
| OEM / System Integration    | Can be integrated into your own devices or systems.                                    |
| Real-time & Historical Data | Continuous monitoring, local storage and store-and-forward when offline.               |



VW-401 | VW-801 | VW-1601

## High-Precision Vibrating Wire Signal Transmitter

Reliable Data Acquisition Interface for Structural Health Monitoring Systems

### Product Overview

The VW Series Vibrating Wire Signal Transmitter is a high-performance signal acquisition interface designed for automated structural health monitoring applications.

Using advanced **FFT frequency analysis and phase-difference processing technology**, the transmitter accurately captures vibrating wire sensor signals and converts them into reliable digital data for engineering monitoring systems.

It provides stable and accurate measurements of:

- ✓ Pressure
- ✓ Strain
- ✓ Displacement
- ✓ Temperature

for long-term infrastructure safety monitoring.

| Model   | Channels    |
|---------|-------------|
| VW-401  | 4 Channels  |
| VW-801  | 8 Channels  |
| VW-1601 | 16 Channels |



## TYPICAL APPLICATIONS

High-precision monitoring for safer structures and better decisions

### 1. DAM SAFETY MONITORING



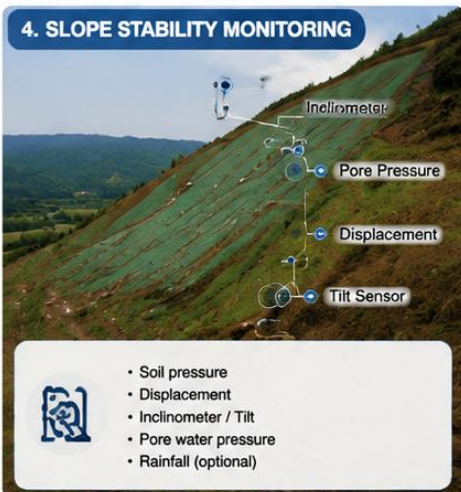
### 2. BRIDGE MONITORING



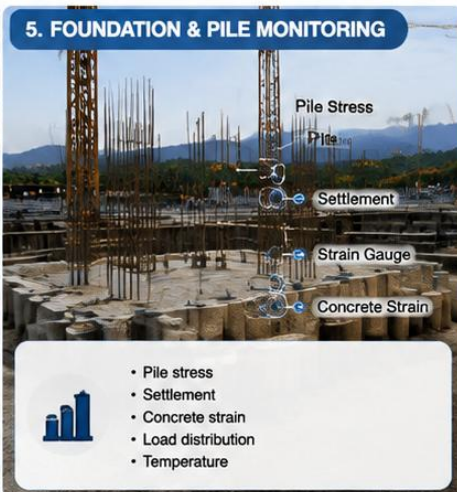
### 3. TUNNEL MONITORING



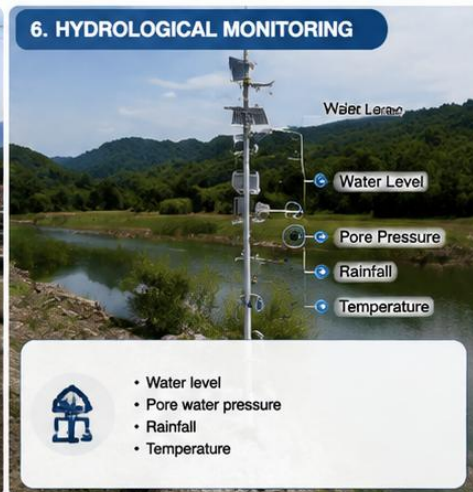
### 4. SLOPE STABILITY MONITORING



### 5. FOUNDATION & PILE MONITORING



### 6. HYDROLOGICAL MONITORING



**High Accuracy**  
Resolution up to 0.03Hz,  
Accuracy  $\leq 0.1\text{Hz}$



**Reliable & Durable**  
Industrial design for  
harsh environments



**Easy Integration**  
Standard Modbus RTU  
for seamless integration



**Real-time Monitoring**  
Supports remote data  
acquisition & alerts



VW-401 | VW-801 | VW-1601

## Key Features

### High-Precision Measurement

- ✓ Frequency resolution up to **0.03 Hz**
- ✓ Accuracy  $\leq 0.1$  Hz
- ✓ Advanced FFT & phase-difference algorithm
- ✓ Stable long-term performance

### Industrial-Grade Design

- ✓ Wide voltage input: **7–32 VDC**
- ✓ Low power consumption
- ✓ Strong electromagnetic interference resistance
- ✓ Suitable for harsh outdoor environments

### Flexible System Integration Architecture

## Technical Specifications

| Parameter             | Specification                        |
|-----------------------|--------------------------------------|
| Measurement Principle | Vibrating Wire Frequency Measurement |
| Signal Processing     | FFT + Phase Difference               |
| Channels              | 4 / 8 / 16                           |
| Frequency Range       | 300 Hz – 6 kHz                       |
| Resolution            | 0.03 Hz                              |
| Accuracy              | $\leq 0.1$ Hz                        |
| Temperature Range     | -20°C ~ +80°C                        |
| Communication         | RS485 MODBUS RTU                     |
| Supply Voltage        | 7–32 VDC                             |
| Power Consumption     | $\leq 20$ mA                         |

## VW Series Vibrating Wire Signal Transmitter

### System Application Diagram

Flexible Integration for All Your Monitoring Needs



#### Flexible System Architecture

- Can be connected directly to PLC / DAQ / control systems when local monitoring is required.
- Can be integrated with RTU / gateway for remote monitoring and cloud-based applications.



Dam Monitoring



Bridge Monitoring



Tunnel Monitoring



Slope Monitoring



Foundation Monitoring



Geotechnical Monitoring



and more



VW-402 | VW-802 | VW-1602

## Multi-channel Vibrating Wire Hybrid Data Acquisition RTU

Intelligent Remote Monitoring Solution for Geotechnical & Structural Health Monitoring

### Product Overview

The **VW-4816-4G Vibrating Wire Hybrid Data Acquisition RTU** is an industrial-grade remote monitoring terminal designed for long-term unattended measurement applications.

The system integrates:

- ✓ High-precision vibrating wire acquisition
- ✓ RS485 digital sensor expansion
- ✓ Edge computing
- ✓ Local data storage
- ✓ Intelligent alarm management
- ✓ 4G wireless communication
- ✓ Remote configuration and maintenance

Designed for critical infrastructure monitoring, the VW-4816-4G provides reliable data acquisition and transmission for:

- Dam safety monitoring
- Bridge structural health monitoring
- Slope stability monitoring
- Tunnel and underground engineering
- Hydrological monitoring
- Geological disaster early warning

| Model   | Channels    |
|---------|-------------|
| VW-402  | 4 Channels  |
| VW-802  | 8 Channels  |
| VW-1602 | 16 Channels |

## 8 Key Parameters for Choosing a Vibrating Wire Data Logger

The right data logger makes your monitoring more accurate, more reliable and more efficient.

Better Data  
Safer Structures

1

### Measurement Channels

How many sensors can it support?

- Support multiple vibrating wire channels (e.g., 4, 8, 16, etc.)
- Ensure sufficient capacity for current and future projects
- Consider channel expansion capability



2

### Measurement Accuracy

Can it provide reliable and stable data?

- High frequency resolution (e.g., 0.01 Hz or better)
- Low temperature drift
- Good long-term stability



Higher accuracy  
means better decisions.

3

### Environmental Adaptability

Can it work in harsh outdoor conditions?

- Wide operating temperature range (e.g., -40°C to +70°C)
- High protection level (e.g., IP67 or higher)
- Resistance to moisture, dust, corrosion and vibration



4

### Communication Capability

Can it keep your data connected?

- Support 4G/5G, Ethernet, or satellite communication
- Compatible with your platform (e.g., MQTT, HTTP, Modbus)
- Stable and reliable data transmission



Stay connected,  
anywhere.

5

### Data Processing & Edge Computing

Can it turn raw data into real value on-site?

- Engineering value conversion (e.g., frequency → pressure/strain/water level)
- Threshold and trend analysis
- Local storage and event detection



From raw data  
to engineering insight.

6

### Alarm & Event Management

Can it respond to risks in time?

- Real-time threshold alarms
- Multi-level alarm (warning / critical)
- Flexible alarm rules and notification methods (e.g., SMS, email, platform)



Detect early,  
respond faster.

7

### Power Supply & Energy Efficiency

Can it operate long-term and autonomously?

- Low power design for solar + battery systems
- Smart power management (sleep/wake-up mode)
- Support for external power and battery backup



Lower power consumption,  
longer operation.

8

### Usability & Service Support

Is it easy to use and maintain?

- Remote configuration and upgrade
- User-friendly interface and clear status indication
- Professional technical support and after-sales service



Easy to manage,  
less worry.



More Accurate Data



Higher Reliability



Greater Efficiency



Safer Infrastructure



VW-402 | VW-802 | VW-1602

## Key Advantages

### 1. High-Precision Vibrating Wire Measurement

Advanced frequency measurement technology based on:

- FFT signal processing
- Phase difference spectrum analysis
- Digital filtering technology

Provides:

- ✓ High measurement accuracy

- ✓ Strong noise resistance

- ✓ Long-term stability

Compatible sensors:

- Piezometers
- Strain gauges
- Pressure cells
- Load cells
- Displacement sensors
- Temperature sensors

### 2. Hybrid Sensor Integration

One RTU supports multiple sensor types.

#### Vibrating Wire Sensors

##### • RS485 Modbus Digital Sensors

Supported digital sensors:

- Water level sensors

- Rain gauges
- Flow meters
- Temperature & humidity sensors
- Other industrial transmitters

Reducing system complexity and installation costs.

### 3. Edge Computing Capability

The RTU can process measurement data values only, the system can directly output engineering parameters:

Functions:

- Sensor calibration
- Engineering parameter conversion
- Local calculation
- Threshold evaluation

Instead of transmitting raw frequency

output engineering parameters:

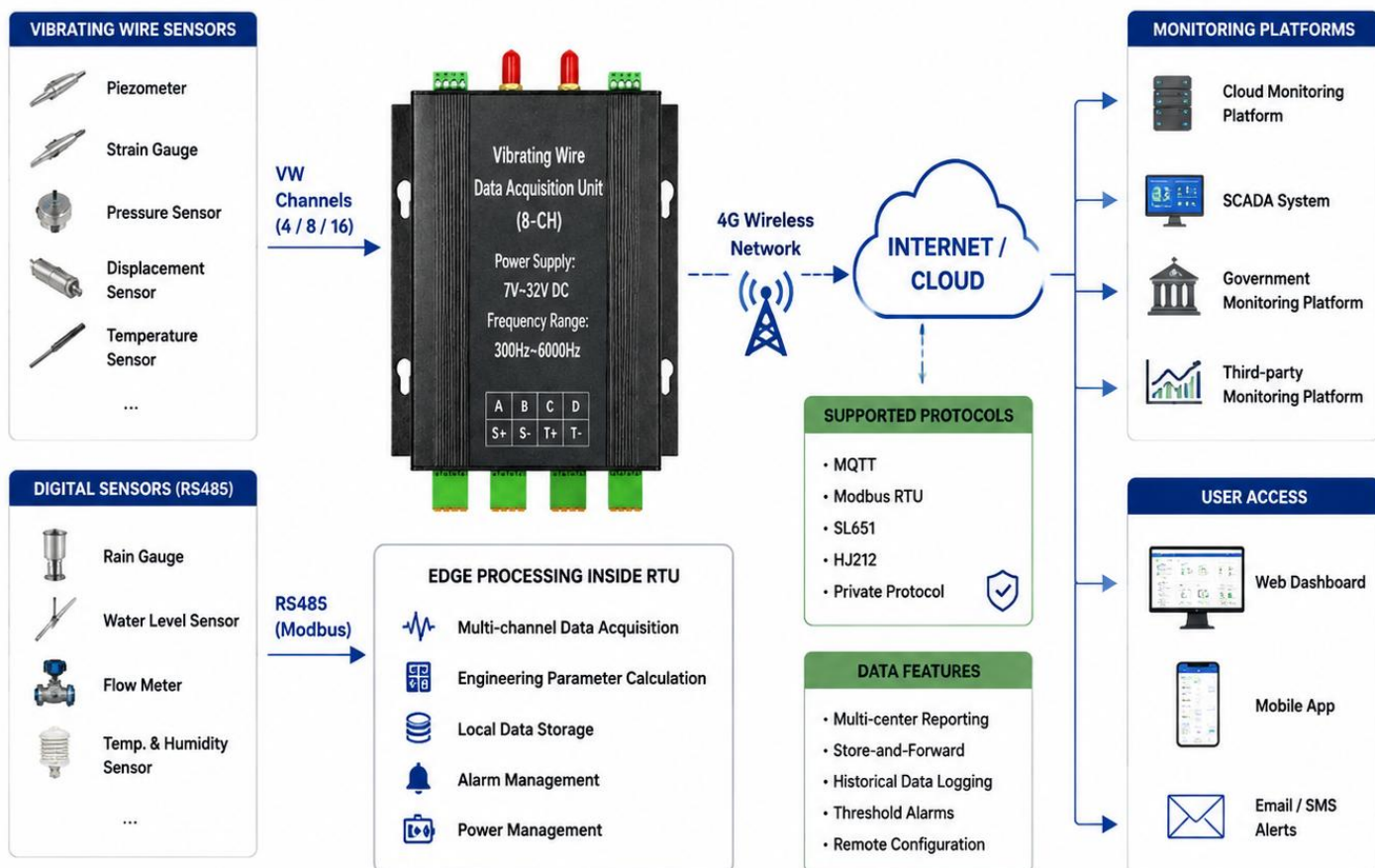
- Pressure
- Water level
- Stress
- Deformation

## Product Highlights

| Feature                       | Advantage                              |
|-------------------------------|----------------------------------------|
| 4 / 8 / 16 Channels           | Flexible project scalability           |
| Industrial 4G Communication   | Reliable remote transmission           |
| Ultra-low Power Design        | Solar & battery applications           |
| Local Storage                 | Data protection during network failure |
| Alarm Management              | Fast response to abnormal conditions   |
| MQTT / Modbus / SL651 / HJ212 | Easy system integration                |
| Remote Configuration          | Reduced maintenance cost               |

# VW-4816-4G SYSTEM ARCHITECTURE

## Multi-channel Vibrating Wire Hybrid Data Acquisition RTU



High Accuracy  
& Stability



Ultra-low Power  
Consumption



Industrial Design  
Reliable & Durable



Easy Installation  
& Maintenance



Scalable for Small to  
Large Monitoring Projects

RTU • Vibrating Wire • IoT Gateway • OEM/ODM

# INDUSTRIAL IoT & REMOTE MONITORING SOLUTIONS



**HU ENTROPY TECH**

IoT Monitoring, Smarter Future.

## Reliable Data Acquisition & Remote Monitoring Solutions

For Dams, Bridges, Tunnels, Slopes, Buildings and More.



Dam



Bridge



Tunnel



Slope



Building



Stable & Reliable  
Field-Proven Performance



Multi-Protocol  
Flexible Integration



4G Remote Monitoring  
Real-Time Data Transmission



OEM/ODM  
Custom Solutions

**Reliable Data Acquisition for Infrastructure & Engineering Monitoring**

### Contact

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