



CONNECTING SENSORS. CONNECTING DATA.

Reliable Data Acquisition for Infrastructure & Engineering Monitoring

RTU • Vibrating Wire • IoT Gateway • OEM/ODM



INDUSTRIAL IoT & REMOTE MONITORING SOLUTIONS

Company Profile | 2026

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DAM & RESERVOIR MONITORING

Real-time data acquisition for water level, pressure, and structural safety.



GEOLOGICAL & SLOPE MONITORING

Monitor slope displacement, surface deformation, and environmental conditions in real time.



RIVER & FLOOD MONITORING

Real-time monitoring of water level, flow, and rainfall for flood early warning and water management.



Company Overview

Industrial IoT and remote monitoring technologies for real-world engineering applications

Who We Are

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

What We Provide

Industrial RTUs, vibrating wire data acquisition modules, IoT gateways and customized embedded monitoring solutions.

Who We Support

System integrators, monitoring solution providers, engineering companies, distributors and OEM/ODM partners.

- Remote data acquisition and telemetry
- Sensor and field-device integration
- Industrial communication and protocol integration
- OEM / ODM hardware and firmware customization
- Application-oriented technical support

HU ENTROPY TECH
IoT Monitoring, Smarter Future.

INDUSTRIAL IOT & REMOTE MONITORING SOLUTIONS

ACCURATE DATA | RELIABLE HARDWARE | STABLE COMMUNICATION | SMART MANAGEMENT

Transform Data into Insights, Protect What Matters.

- Dam Safety Monitoring
- Slope & Geotechnical Monitoring
- Structural Health Monitoring
- Foundation PIT Monitoring
- Water Resources & Environmental Monitoring

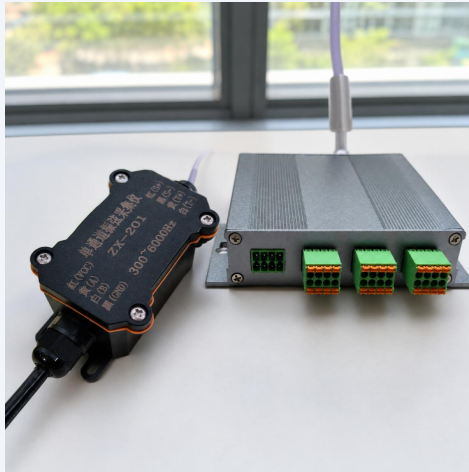
RTU Remote Terminal Unit | Vibrating Wire Data Logger | Data Acquisition Module | IoT Gateway | Monitoring Cloud Platform

Real-time Monitoring | Early Warning & Alarm | Remote Access Anywhere

Reliable Products | Professional Support | Customized Solutions | Global Partner

Our Technology Portfolio

Hardware designed to connect sensors, field devices, communications and monitoring platforms



Vibrating Wire Acquisition

VW-201 and multi-channel VW acquisition solutions



Industrial RTU

RTU-800H-4G, RTU-900H and RTU-901H

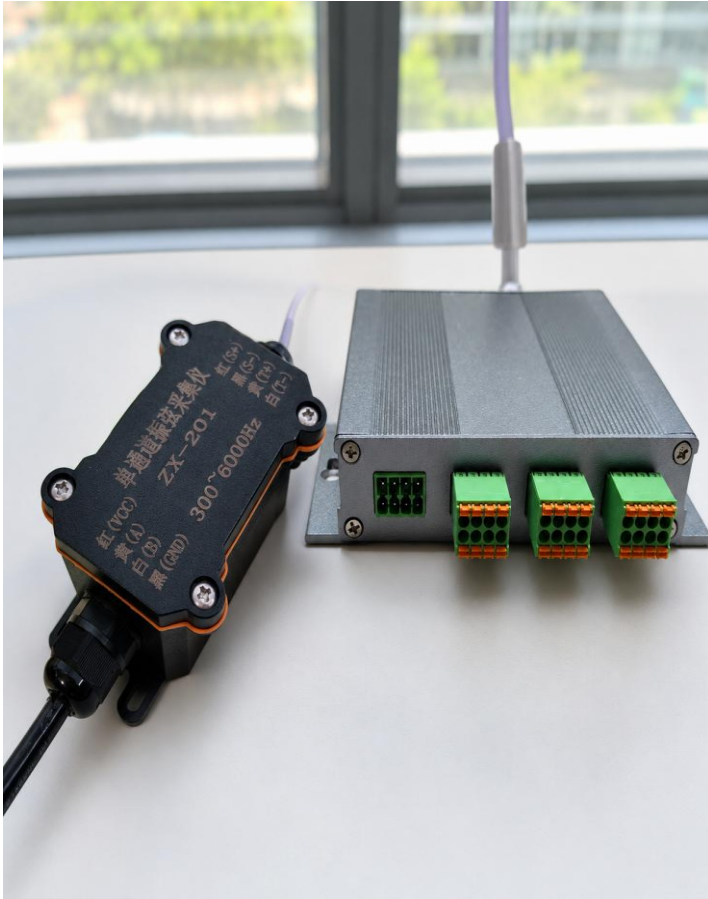


Video + IoT Gateway

RTU-AC04 for real-time video and sensor data fusion

Vibrating Wire Data Acquisition

From single-channel modules to multi-channel monitoring systems



VW-201

Single-channel vibrating wire frequency measurement module with RS485 / Modbus RTU integration.

Multi-Channel Series

4, 8 and 16-channel options are listed in the current product portfolio.

- Designed for geotechnical and structural health monitoring
- Compatible with vibrating wire sensors including piezometers, strain gauges, load cells and displacement sensors
- FFT-based frequency measurement with fast acquisition response
- RS485 interface and standard Modbus RTU
- OEM firmware, custom protocol and hardware integration available

Multi-channel Vibrating Wire Hybrid Data Acquisition RTU

Intelligent Remote Monitoring Solution for Geotechnical & Structural Health Monitoring



VW-402/VW-802/VW-1602

An industrial-grade remote monitoring terminal designed for long-term unattended measurement applications.

Multi-Channel Series

4, 8 and 16-channel options are listed in the current product portfolio.

- High-precision vibrating wire measurement
- 4G wireless communication
- RS485 sensor integration
- Edge data processing
- Low-power operation
- Remote monitoring & alarm management
- OEM firmware, custom protocol and hardware integration available

Ideal for dams, bridges, tunnels, slopes, and geotechnical monitoring systems.

Industrial RTU Solutions

Reliable remote data acquisition, telemetry and edge monitoring



RTU-800H-4G

Compact 4G RTU for remote data acquisition and equipment monitoring.

RTU-900H / RTU-901H

Industrial RTUs with multi-protocol connectivity, edge functions and flexible I/O.

- 4G LTE / Ethernet / LoRa connectivity
- RS485 / RS232 / TTL and industrial I/O
- Modbus RTU/TCP, MQTT and selected industry protocols
- Local data logging and store-and-forward
- Edge processing and local alarm logic
- Industrial operating range down to -40°C (model dependent)

Video + IoT Data Fusion

RTU-AC04 connects video, sensors and industrial data into one visual monitoring layer



- Overlay real-time sensor data directly onto IP camera video
- Supports RS485 sensors, Modbus RTU devices and PLC equipment
- Works with ONVIF-compatible camera environments
- Designed for SCADA providers, IoT companies, monitoring integrators and OEM partners
- Applications include flood warning, dam safety, landslide monitoring and industrial remote monitoring

Value Proposition

Help operators understand not only what the sensor says, but what is happening at the site.

Monitoring Applications

Built around remote infrastructure, environmental and industrial monitoring needs

Dam Safety

Structural and environmental surveillance

Flood Warning

Water level, rainfall and flow monitoring

Geotechnical

Slope and geological hazard monitoring

Structural Health

Bridges, buildings and critical infrastructure

Water Resources

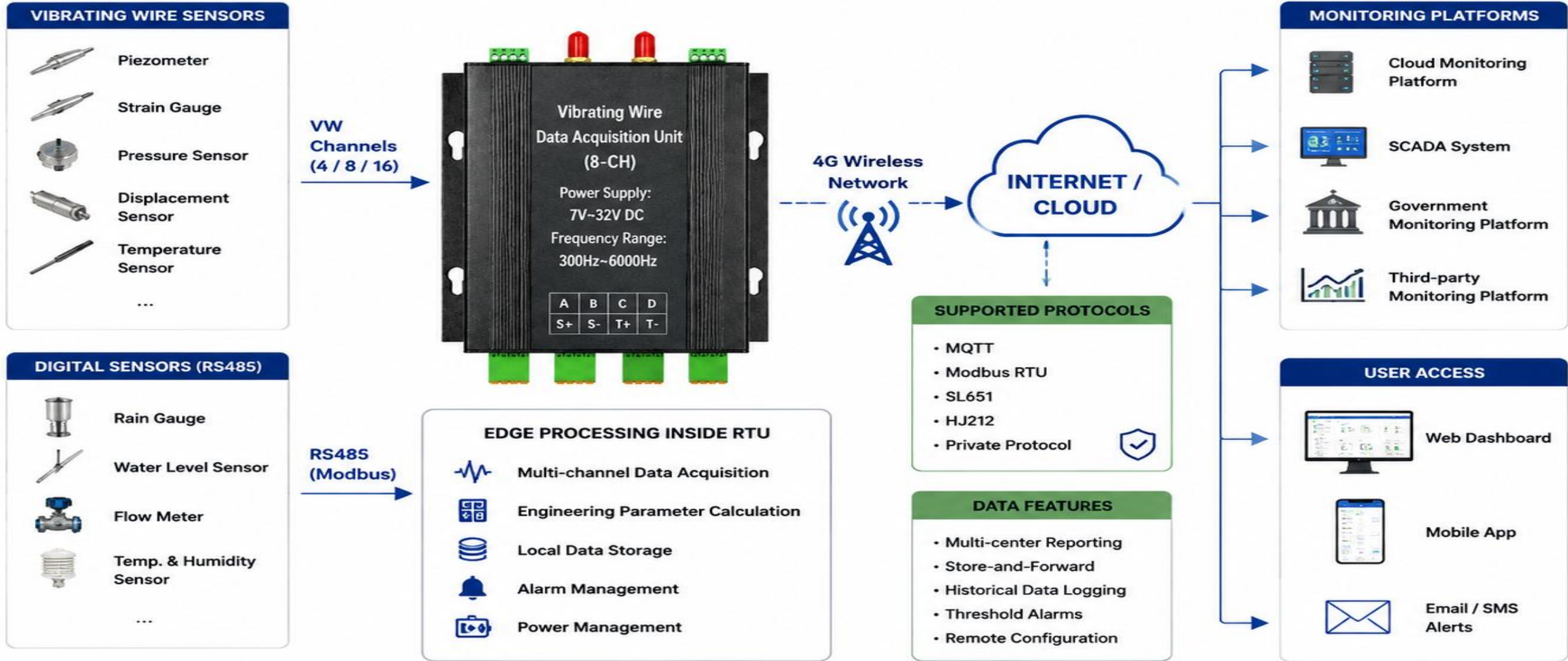
Reservoir, river and irrigation monitoring

Industrial IoT

Equipment monitoring and remote control

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

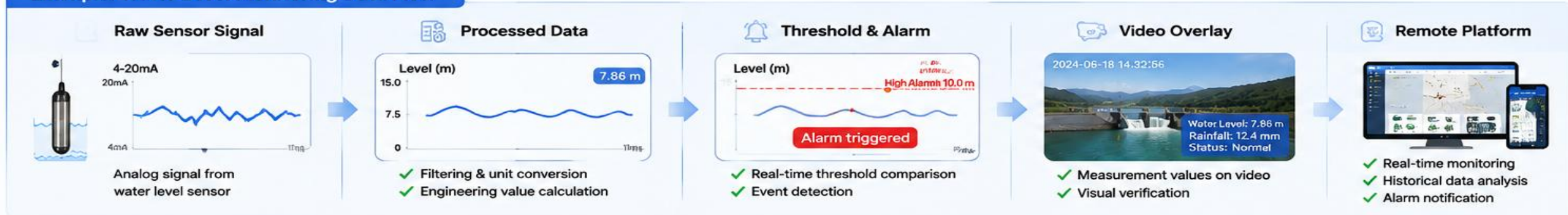
Typical Data Flow

From Field Data to Real-time Visualization and Remote Management

The ZX-901H collects sensor data and video, processes them at the edge, and reliably transmits valuable information to the cloud/SCADA platform for real-time monitoring and decision support.



Example: Water Level Monitoring Data Flow



Accurate Data

Faster Response

Lower Bandwidth

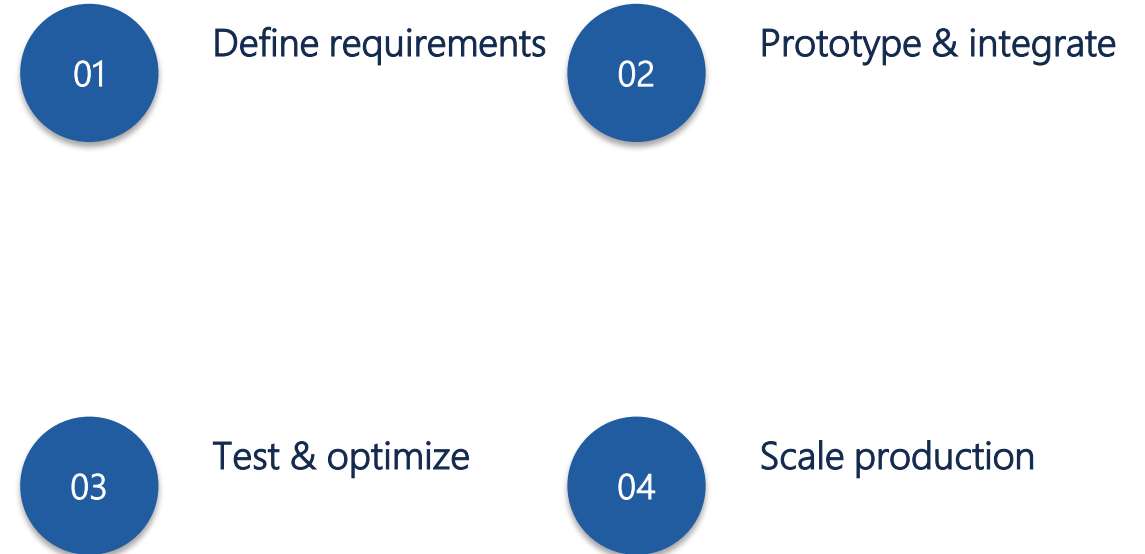
Visual Verification

Reliable Remote Monitoring

OEM / ODM & Integration Support

Flexible cooperation for global engineering and monitoring partners

- Customized hardware for application-specific requirements
- Firmware development and customization
- Private / custom communication protocol integration
- Cloud platform and monitoring system integration
- Application-oriented technical support
- Suitable for system integrators, solution providers, distributors and OEM partners



Why Partner With Hu Entropy Tech?

Engineering Experience

Nearly 10 years of team experience in RTU, data acquisition and monitoring technologies.

Flexible Customization

Hardware, firmware and protocol integration for application-specific requirements.

Industrial Focus

Solutions designed for remote sites, harsh environments and long-term operation.

Global Cooperation

Supporting system integrators, solution providers, distributors and OEM partners.

Let's Build Better Monitoring Solutions Together

Looking for system integrators, engineering companies, distributors and OEM/ODM partners worldwide.

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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

