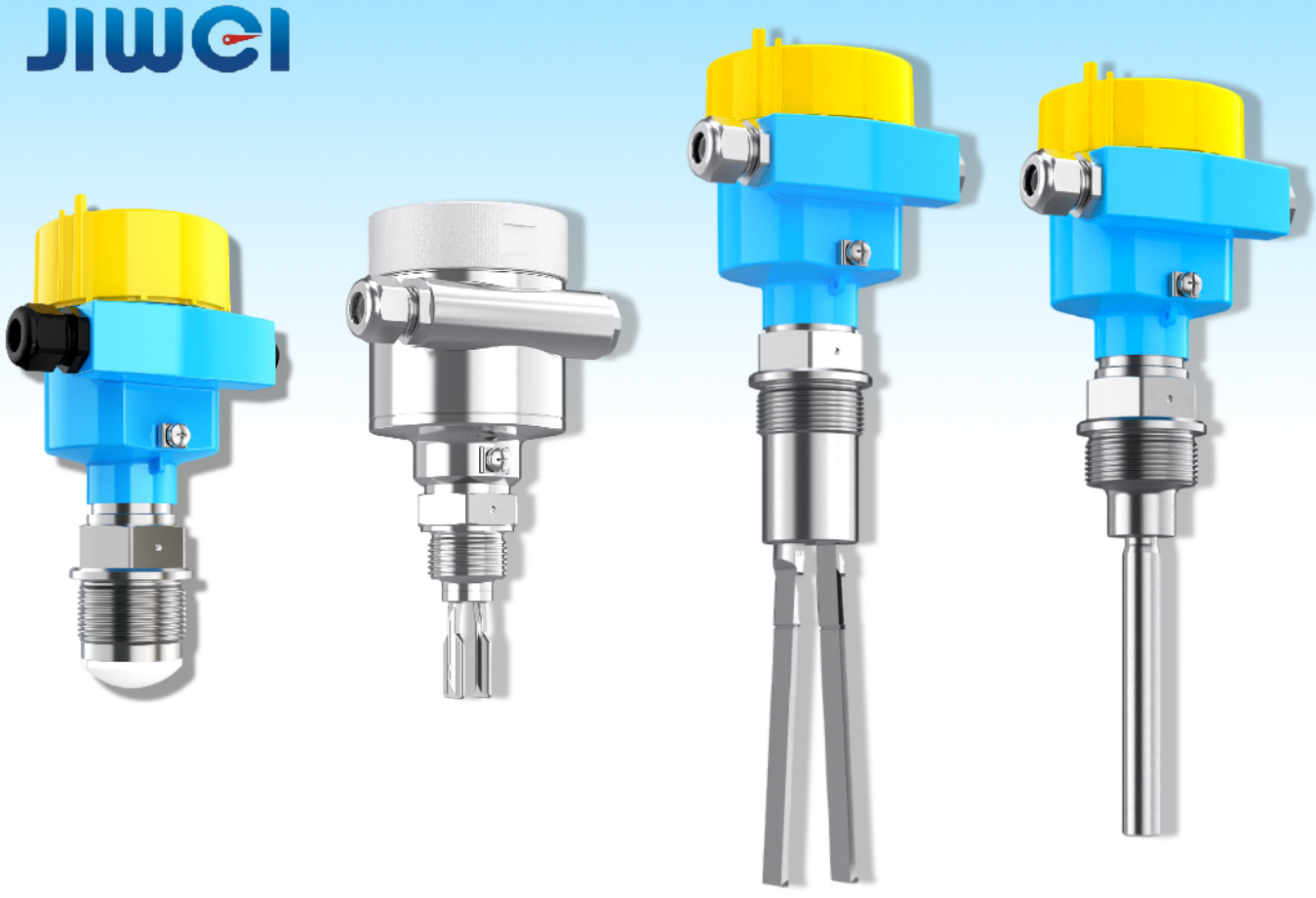
計為®
JIWEI



We specialize in level measurement.

—Shenzhen Jiwei Automations Ltd.—

# Company Introduction

Founded in 2013 by five industry veterans, Shenzhen Jiwei Automation Ltd. is a high-tech enterprise specializing in the R&D, manufacturing, and sales of level measurement instruments. Located in Shenzhen, China' s innovation hub, Jiwei has a registered capital of RMB 14.5 million.

## Reliability

Guided by the mission of "providing customers with the most cost-effective level measurement solutions," Jiwei combines high performance with strict cost control to deliver exceptional value.

With reliability comparable to leading imported brands, Jiwei has implemented the ISO 9001 quality management system, obtained SIL, EAC, CCC, and CE certifications, and adopted ERP systems to ensure consistent quality and efficient operations.

## Research & Development

Nearly half of Jiwei' s employees are engaged in R&D. Our engineering team continuously innovates to develop reliable and application-specific level measurement solutions. All new products undergo rigorous third-party testing before mass production to guarantee safety, durability, and performance under harsh industrial conditions.

## Manufacturing

By integrating R&D and production, Jiwei maintains strict quality control throughout manufacturing. Supported by ERP and ISO 9001 systems, we ensure high-standard products at competitive prices.

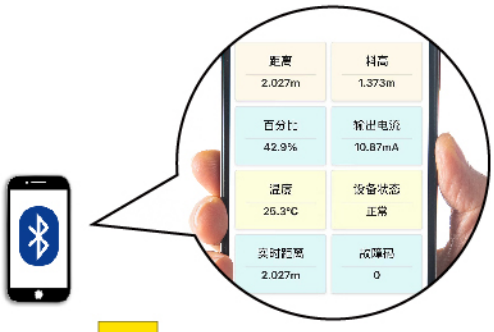
## Customer Service

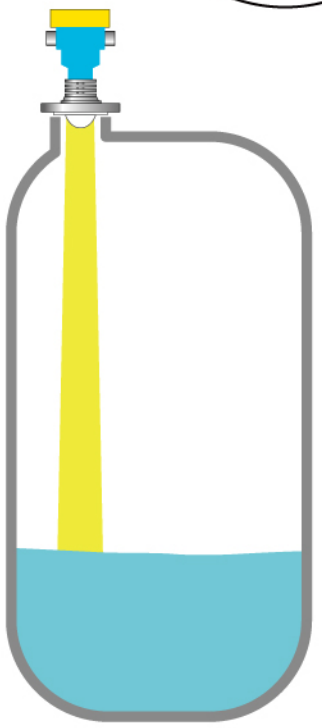
Jiwei' s technical and sales teams focus on understanding customer needs and delivering tailored, effective solutions. We value long-term partnerships and customer satisfaction as the core of our service philosophy.

If you seek the reliability of global brands with a more reasonable budget, or are exploring Chinese-made level measurement products with proven quality, Jiwei offers the perfect balance — reliability and performance without compromise.

# PRO Radar Level Meter

Liquid | Solid | Bluetooth | 80GHz



## PRO Radar Level Meter

### Overview

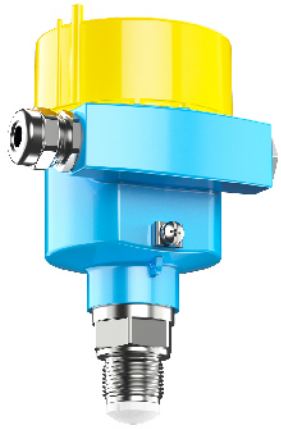
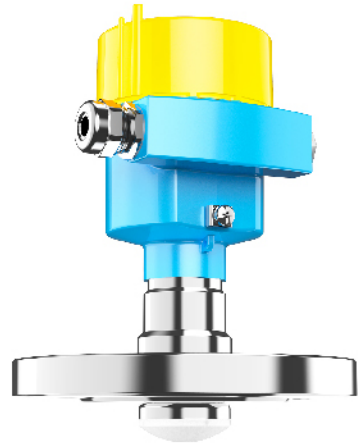
The PRO Radar Level Meters utilize 80GHz FMCW technology, offering a measuring range of up to 150 meters. With a narrow beam angle and focused energy, they are ideal for low dielectric constant and complex media. Each unit undergoes over 50 rigorous factory tests and is well-suited for harsh conditions such as high temperature, high pressure, steam, and dust.

### Principle

Radar level meters send microwave signals from above to the material surface. The signal bounces back, and the device calculates the distance to measure the level. This method works for both liquids and solids.

### Benefits

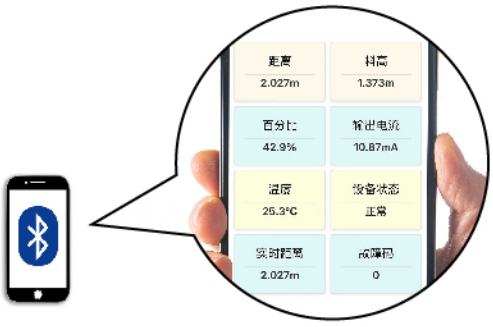
- **Non-contact Measurement:** High-precision radar technology with accuracy up to ±1 mm, ensuring reliable results without physical contact.
- **Excellent Environmental Adaptability:** Measurement remains stable regardless of medium properties or process conditions.
- **User-Friendly Design:** Easy setup with support for remote commissioning via the "Jiwei Smart Control" Bluetooth app.
- **Self-Developed Intelligent Echo Technology:** Proprietary echo-learning algorithm that intelligently adapts to complex environments for optimized accuracy.

| | JWrada-31 | JWrada-32 |
|---|---|---|
| |  |  |
| **Features** | 60m range，Economical 80 GHz high-frequency radar level meter with high versatility | 60m range，80 GHz high-frequency radar for liquid/solid levels，full explosion-proof |
| **Applications** | Pharmaceutical, food, energy, and hydrology & water utilities level measurement | For all zones, high-dielectric powders/solids |
| **Measurement Medium** | Liquid | Solids and liquids |
| **Process Temperature** | Ambient temperature：-40～150℃ | Ambient temperature：-40～150℃<br>High temperature：-40～220℃ |
| **Range** | ≤60m | |
| **Process Pressure** | -1～30 bar | |
| **Antenna** | PFA、316L+PTFE、316L+PFA | |
| **Process Connection** | Thread, flange, bracket, hanger | |
| **Beam Angle** | ≥3° | |
| **Frequency** | 80GHz | |
| **Power supply** | 12~30V DC | |
| **Signal Output** | **Two-wire:** 4～20mA/HART **Four-wire:** RS485/Modbus **Bluetooth:** Support Bluetooth® v5.4 | |
| **Qualifications & Certifications** | •**Explosion Protection:**<br>None (for non-explosion-proof areas)<br>•**Ingress Protection:** IP66/67、IP68 | • **Explosion-proof:**<br>Ex db IIC T6 Gb (Gas explosion-proof)<br>Ex ia IIC T6 Ga (Gas intrinsically safe)<br>Ex tb IIIC T80℃ Db (Dust explosion-proof)<br>Ex ia IIIC $T_{200}$ 80℃ Da (Dust intrinsically safe)<br>• **Ingress Protection:** IP66/67、IP68 |

| | JWrada-34 | JWrada-35 |
|---|---|---|
| |  |  |
| **Features** | 120m range，80 GHz high-frequency radar for liquid & solid level, fully explosion-proof certified | 150m range，80 GHz high-frequency radar for high temp, high pressure, corrosion resistance |
| **Applications** | Level measurement in steam, foam; low-medium dielectric powders and solids in steam | Level measurement in high temp, pressure, corrosion, steam, foam; powders, solids, dust in steam environments |
| **Measurement Medium** | Solids and liquids | |
| **Process Temperature** | Ambient temperature：-40～150℃ | High temperature：-40～220℃ |
| **Range** | ≤120m | ≤150m |
| **Process Pressure** | -1～30 bar | |
| **Antenna** | PFA，316L+PTFE，316L+PFA | |
| **Process Connection** | Flange，bracket，hanger | |
| **Beam Angle** | ≥3° | |
| **Frequency** | 80GHz | |
| **Power supply** | 12~30V DC | |
| **Signal Output** | **Two-wire:** 4～20mA/HART **Four-wire:** RS485/Modbus **Bluetooth:** Support Bluetooth® v5.4 | |
| **Qualifications & Certifications** | • **Explosion-proof:**<br>Ex db IIC T6 Gb (Gas explosion-proof)<br>Ex ia IIC T6 Ga (Gas intrinsically safe)<br>Ex tb IIIC T80℃ Db (Dust explosion-proof)<br>Ex ia IIIC $T_{200}$ 80℃ Da (Dust intrinsically safe)<br>• **Ingress Protection:** IP66/67、IP68 | |

# MINI Radar Sensor

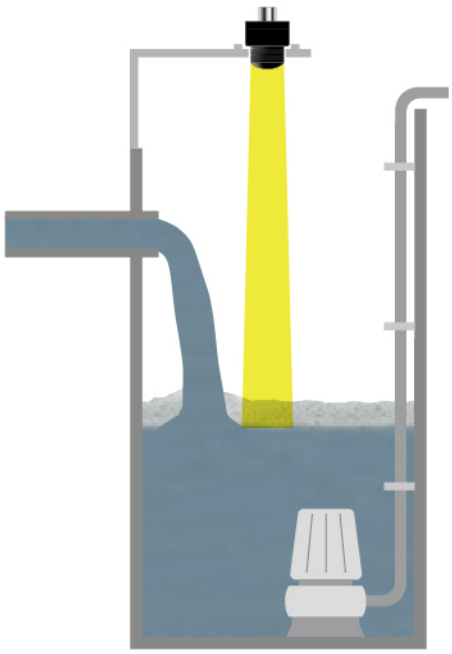
Compact | Smart | 80GHz




## MINI Radar Sensor

### Overview

The 80GHz FMCW MINI Radar Sensors measure to 30 m for liquids/solids. HART/Modbus, Bluetooth + WeChat app enable setup/cloud updates. Smart echo algorithm ensures stable, maintenance-free use. Widely used in hydrology and water management, it is also suitable for short-range and simple-condition bulk solid level measurement applications.



### Principle

An 80 GHz FMCW radar sends a chirp, receives echoes. Mixing transmit/return yields an IF signal; FFT gives beat frequency/time delay. With light speed, distance—and thus level—is computed.

### Benefits

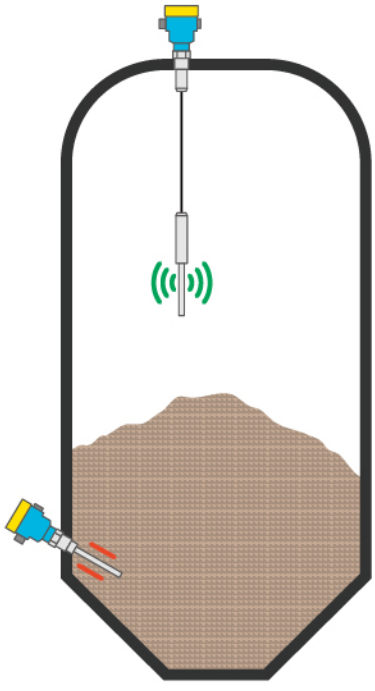
- Compact, cost-effective design.
- Simple display for easy on-site installation and setup.
- High accuracy (±1 mm), 30 m range for liquids; also fits short-range bulk solids.
- Built-in Bluetooth 5.0, supports "Jiwei Smart Control" WeChat app and cloud for remote setup, upgrades, and monitoring.
- Smart echo processing with self-learning: suppresses false echoes, separates multi-echoes, tracks targets for stable accuracy.
- Lightweight, UV-resistant nylon housing.
- Ideal ultrasonic meter replacement, perfect for hydrology and water management.

| | JWrada-21 | JWrada-22 |
|---|---|---|
| |  |  |
| **Features** | Compact, simple and cost-effective 80GHz high-frequency radar level sensor | Compact, simple and cost-effective 80GHz high-frequency radar level sensor with display |
| **Applications** | Especially suitable for hydrology, simple liquid level, and short-range bulk solid measurement | Especially suitable for hydrology and water management, simple liquid level measurement, and short-range bulk solid level measurement |
| **Measurement Medium** | Solids and liquids | |
| **Process Temperature** | Ambient temperature: -40～80℃ | |
| **Range** | ≤30m | |
| **Process Pressure** | -1～3 bar | |
| **Antenna** | Nylon plastic, with optional metal material available upon request | |
| **Process Connection** | Direct threaded installation,<br>or bracket through-hole (φ48 mm ±1) installation with fastening nut | |
| **Beam Angle** | ≥6° | |
| **Frequency** | 80GHz | |
| **Power supply** | 12~30V DC | |
| **Signal Output** | **Two-wire:** 4～20mA/HART<br>**Four-wire:** RS485/Modbus<br>**Bluetooth:** Support Bluetooth® v5.4 | |
| **Ingress Protection** | IP66/67、IP68 | |

# Vibrating Rod Level Switch

Solids | Vibration | Pioneered in China

## Tube-11 Vibrating Rod Level Switch



### Overview

Tube-11 is China' s first level switch with an innovative dual-tube probe, designed for measuring powders, granules, and sediment in water. Backed by 10+ core patents and dual gas/dust explosion-proof certification, it ensures reliable detection of various solids. Its strong adaptability and high accuracy make it ideal for demanding industrial environments.

### Principle

A piezoelectric driver excites the Tube-11' s vibrating rod. When the rod contacts material, vibration amplitude decreases. The electronics detect this change and output a switch signal.

### Benefits

- **Dual-tube probe design:** China' s first, suitable for various solid materials and sediment measurement in water.
- **High sensitivity:** detects media density as low as 0.02g/cm³, covering most conditions.
- **High temperature resistance:** standard up to 250℃, ultra-high up to 400℃, industry-leading.
- **Anti-clogging design:** ideal for viscous or sticky media.
- **Intelligent self-diagnosis:** accurate fault detection, easy maintenance.
- **No calibration needed:** plug-and-play, simple operation.
- **Cable type:** flexible cable connection up to 20 meters, suitable for long-distance measurement.

*10+ Patents:

201610511184.7 (Invention) , 201510009538.3 (Invention) , 201510059187.7 (Invention) , 201520009337.9, 201520012324.7, 201520215527.6, 201520332293.3, 201620679133.0 , ZL 201920496471.4 , ZL201921754721.6, Software Copyright Registration No. 5443153

| | Standard | Ultra-High Temp | Suspension |
|---|---|---|---|
| |  |  |  |
| **Applications** | • Widely used in silos, dust bins, hoppers, and packaging lines. Ideal for extreme temperature level measurement in metallurgy, chemical, cement, and waste incineration industries. | | |
| **Measurement Medium** | Powders, granular solids, and sediments① | | |
| **Structure** | Rod | Cooling protective sleeve design | With suspension-type flexible cable, up to 20 meters |
| **Process Temp** | -50 ~ 150℃ | -50 ~ 400℃ | -50 ~ 250℃ |
| **Process Connection** | Flange, thread, clamp, customizable | | |
| **Signal Output** | Relay, two-wire | | |
| **Process Pressure** | -1 ~ 16 bar | | |
| **Probe Material** | 316L, 316L coated with Enamel, ECTFE, PFA, 318S13, Hastelloy C-22 | | |
| **Housing Material** | Aluminum alloy, stainless steel② | | |
| **Qualifications & Certifications** | • **Gas & Dust Explosion-Proof③:**<br>Explosion-Proof —— Ex db IIC T1...T6 Gb<br>Intrinsically Safe —— Ex ia II CT1...T6 Ga<br>• **CE:** LVD certificate, EMC certificate<br>• **Ingress Protection:** IP66/IP67 | Ex tb IIIC T80℃...T440℃ Db<br>Ex ia IIIC $T_{200}$100℃...$T_{200}$450℃ Da | |

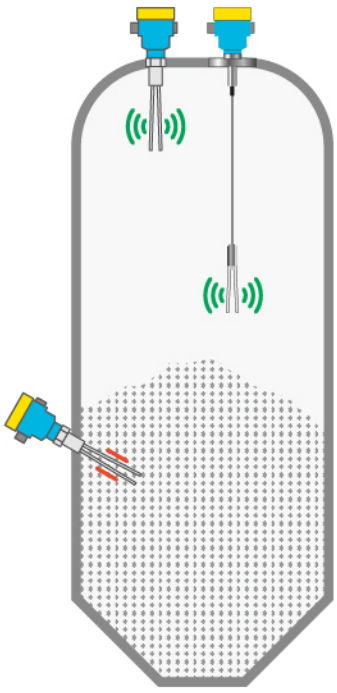
Note:

① Maximum particle size: 20mm (requires medium density < 0.05g/cm³)

② Customizable with special materials such as food-grade stainless steel, tantalum, Hastelloy, and titanium alloy

③ Explosion-proof versions available upon request

# **Tuning Fork Level Switch** Solids| Vibration| Ultra-Low Density



## Fork-11 Tuning Fork Level Switch

### Overview

The Fork-11 tuning fork level switch is a high-performance level measurement device specially designed for ultra-low-density powders and fine granular materials. It is used for measuring powdered solids in silos and storage bins. Suitable for silos containing powdery materials such as flour, cement, or sand, as well as containers holding fine granular solids like plastic pellets, small pebbles, or foam plastics. Certified with CE gas and dust explosion-proof safety approval, it ensures enhanced safety during the measurement process.

### Principle

The Fork-11 tuning fork level switch uses a piezoelectric device to make the fork vibrate and detect changes in vibration. When the fork is not touching material, it vibrates freely; when it touches material, the vibration slows down. The device senses this change and sends a switch signal.

### Benefits

- China' s first 0.008 g/cm³ ultra-low density detection for accurate sediment and solids measurement.
- Optimized for powders and granules, anti-clog, dust-resistant, and works up to 400℃.
- 20m flexible cable probe for complex setups.
- Built-in self-diagnosis, maintenance-free, easy installation, lowers operating costs.

*Patent: 201520332293.3

| | Standard | Ultra-High Temp | Suspension |
|---|---|---|---|
| |  |  |  |
| **Applications** | • Suitable for low-density materials like fumed silica, EPP/EPS pellets, zircon sand, and petroleum coke, with a max temperature of 400℃.<br>• Reliable for powders in pharma, food, chemicals, and mining. Handles high temperature and dust for stable industrial use. | | |
| **Measurement Medium** | Powders, granules, sediments, and floating materials | | |
| **Structure** | Fork | Cooling protective sleeve design | With suspension-type flexible cable, up to 20 meters |
| **Process Temp** | -50 ~ 150℃ | -50 ~ 400℃ | -50 ~ 250℃ |
| **Process Connection** | Flange, thread, clamp, customizable | | |
| **Housing Material** | Aluminum alloy, 316L stainless steel, customizable① | | |
| **Process Pressure** | -1 ~ 25 bar | | |
| **Signal Output** | Relay, two-wire | | |
| **Fork Material** | 316L, 316L coated with PTFE | | |
| **Qualifications & Certifications** | • **Explosion Protection:** Explosion-Proof Ex db IIC T1...T6 Gb Ex tb IIIC T80℃...T440℃ Db<br>Intrinsically Safe Ex ia II CT1...T6 Ga Ex ia IIIC $T_{200}$100℃...$T_{200}$450℃ Da<br>• **CE:** LVD certificate, EMC certificate<br>• **Ingress Protection:** IP66/IP67 | | |

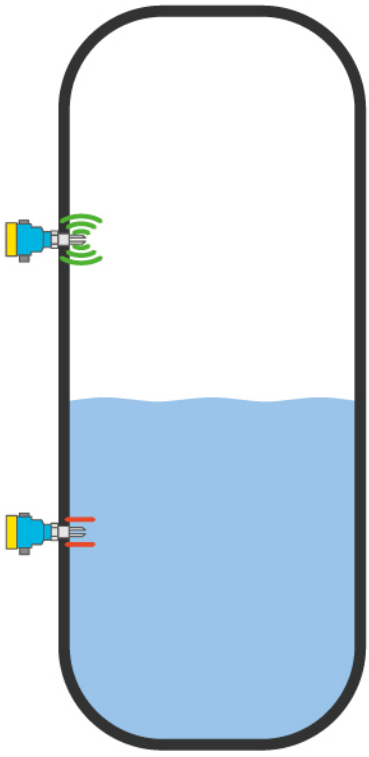
Note:

①Customizable housing available in food-grade stainless steel, tantalum, Hastelloy, titanium alloy, and other special materials.

# Vibrating Level Switch

Liquids | Vibration | SIL Certified

## Ring-11 Liquid Level Switch



### Overview

The Ring-11 liquid level switch is China' s first SIL2/3-certified level product, also certified with CCC, CE, Gas & Dust explosion-proof, intrinsic safety, and flameproof standards. Its 40mm ultra-short fork, with precision tuning and anti-interference design, ensures accurate liquid level detection, prevents overflow and dry run, and supports pump protection. It remains reliable in turbulence, foam, vibration, and buildup conditions.

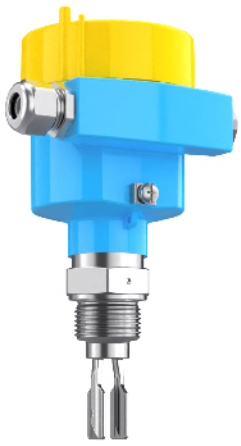
### Principle

The Ring-11 tuning fork vibrates at its natural frequency. When submerged or exposed by changing liquid levels, its vibration frequency shifts, indicating the liquid level.

### Benefits

- **Unique Design:** Measures ultra-low-density liquids (≥0.5g/cm³), withstands up to 400°C.
- **Reliable in Harsh Conditions:** Unaffected by installation, pressure, temperature, foam, viscosity; ideal for LNG.
- **Flexible Outputs:** Relay, two-wire, NAMUR, transistor.
- **SIL Certified:** SIL2/3, CE, explosion-proof.
- **Food-Grade:** Surface Ra < 0.5μm.
- **Gas-tight Lead-Through:** Prevents corrosion and leaks in high-temp, high-pressure environments.

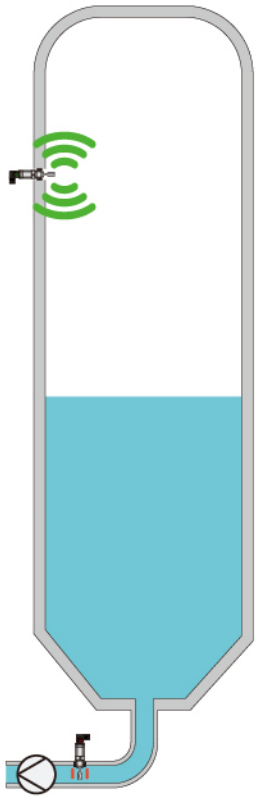
*Patent: 201510735568.2 (Invention) ,201520332293.3。

| | Standard | Corrosion-Resistant | High-Temp & Explosion-Proof |
|---|---|---|---|
| |  |  |  |
| **Applications** | • Designed for industrial liquid level measurement in pipelines, tanks, and wastewater systems. Explosion-proof for safe use in hazardous areas, ideal for LNG and high-pressure gases. Handles acids, alkalis, and viscous media reliably. Suitable for food, petrochemical, pharmaceutical, and pipeline industries. | | |
| **Measurement Medium** | Liquid | Corrosive liquid | High-temperature and high-pressure liquid |
| **Process Temperature** | -50 ~ 400℃ | | |
| **Process Connection** | Flange, thread, clamp, customizable | | |
| **Housing Material** | Aluminum alloy, 316L stainless steel, customizable① | | |
| **Process Pressure** | Atmospheric Pressure, -1~64 bar | | |
| **Signal Output** | Relay, two-wire, NAMUR, transistor | | |
| **Fork Material** | 316L, 316L coated with Enamel, ECTFE, PFA, Hastelloy C-22, Tantalum, 318S13 | | |
| **Qualifications & Certifications** | • **SIL Qualifications:** SIL2 (HFT=0) / SIL3 (HFT=1)<br>• **Explosion Protection:** Explosion-Proof —— Ex d IIC T6~T1 Gb<br>Intrinsically Safe —— Ex ia IIC T6~T1 Ga<br>Flameproof for Gas and Dust —— Ex db IIC T6...T1 Gb + Ex tb IIIC T440℃...T80℃ Db<br>• **CE:** LVD Certificate, EMC Certificate<br>• **Ingress Protection:** IP66/IP67 | | |

Note:

①Food-grade stainless steel, tantalum, Hastelloy, titanium alloy, and other materials support customized housings.

# **Compact Level Switch** Liquids | Vibration | Economical



## Ring-21 Compact Liquid Level Switch

### Overview

The Ring-21 compact tuning fork level switch is a cost-effective limit switch with a small and lightweight design. It measures only 160.5 mm in length and 31.5 mm in diameter, with a fork length of 38 mm. Suitable for liquids with densities as low as 0.7 g/cm³, it is ideal for low-cost, non-explosion-proof applications in pipelines or narrow spaces.

### Principle

Based on the principle that the vibration frequency decreases when the fork is immersed in liquid, the detection circuit identifies the frequency change and outputs a switching signal.

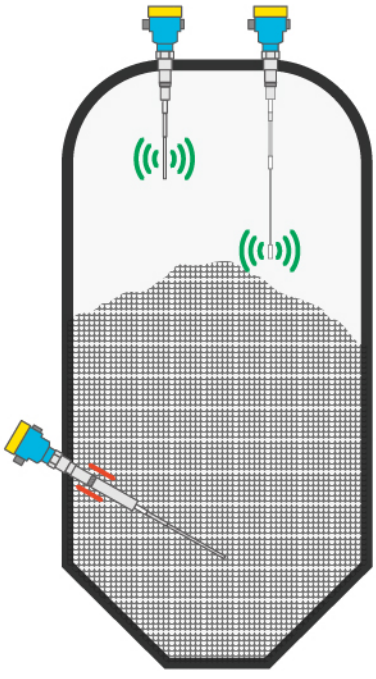
### Benefits

- **Cost-effective:** Practical and budget-friendly.
- **Export-ready:** CE certified.
- **High reliability:** Designed based on frequency variation detection.
- **Easy operation:** Safe, reliable, and widely applicable.
- **Compact measurement:** Ideal for pipelines and small tanks.

*Patent: 201520332293.3,Software Copyright Registration No. 1548696

| | Standard | High-Temp |
|---|---|---|
| |  |  |
| **Applications** | • The standard model suits small tanks, sumps, cooling tanks, pipelines, labs, water treatment, a nd HVAC systems.<br>• The high-temperature model is for non-explosion-proof high-temp environments like heat pump hot water, boiler feed tanks, chemical and food industry cleaning fluids, and cooling system pipelines. | |
| **Measurement Medium** | Liquid ≥0.7g/cm³ | High-Temp Liquid ≥0.7g/cm³ |
| **Process Temp** | -50 ~ 100℃ | -50 ~ 150℃ |
| **Process Pressure** | -1 ~ 40 bar | |
| **Housing Material** | 316L | |
| **Process Connection** | thread, clamp, customizable | |
| **Signal Output** | Relay, PNP, NPN | |
| **Frok Material** | 316L | |
| **Qualifications & Certifications** | • **Ingress Protection:** Pg11 —— IP65 M12×1 —— IP66/IP67<br>• **CE certificate:** LVD certificate, EMC certificate | |

# **RF Admittance Level Switch** Solids | RF Type | Industry-Leading 450°C



## Cape-11 RF Admittance Level Switch

### Overview

The Cape-11 RF admittance level switch is specially developed for fly ash level measurement. Jiwei adopts proprietary technology and advanced manufacturing processes, ensuring excellent versatility and high reliability. The product features a modular design and an external LED indicator for convenient remote monitoring.

### Principle

The RF admittance level switch applies a high-frequency signal to the probe and detects changes in dielectric constant and conductivity of the material to monitor level variations in real time.

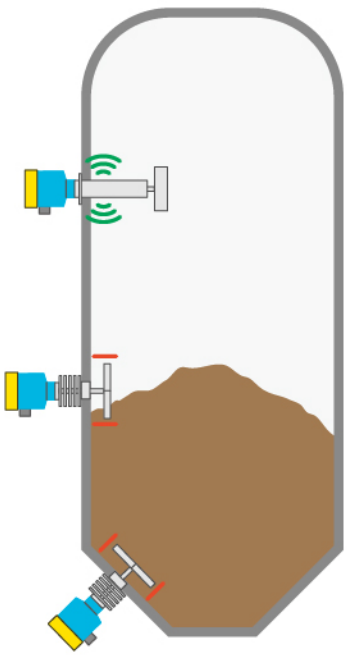
### Benefits

- **450°C High-Temperature Resistance:** Industry-leading temperature endurance.
- **External Dual-Color LED Indicator:** Enables easy remote status monitoring.
- **Cable Probe Version:** Designed for large silos and tall vessels; vertical installation reduces material impact.
- **Modular Design:** Improves efficiency and simplifies maintenance.

*Patent: 201520332293.3

| | Standard | Ultra-High Temp | Rope |
|---|---|---|---|
| |  |  |  |
| **Applications** | • Designed for dusty industrial environments, it is ideal for monitoring the level of powdered materials like pulverized coal, fly ash, and cement clinker in applications such as power plant ash hoppers, coal bunkers, and desulfurization silos. | | |
| **Measurement Medium** | Coal ash and powder | | |
| **Process Temp** | -40 ~ 250℃ | -40 ~ 450℃ | -40 ~ 250℃ |
| **Probe length** | 250 ~ 2000mm | 400 ~ 1800mm | 600 ~ 6000mm |
| **Process Connection** | Flange, thread (304/316 stainless steel customizable) | | |
| **Signal Output** | Relay | | |
| **Ingress Protection** | IP66 | | |

# **Rotary Paddle Switch** Solids | Gas & Dust Explosion-Proof



## Spin-11 Rotary Paddle Switch

### Overview

The Spin-11 rotary paddle switch is a highly reliable industrial material level control device, widely used for automatic detection and control of extreme levels in silos containing powdery, granular, or block materials.

### Principle

The rotating paddle contacts the material to detect its presence or absence, enabling level detection and control.

### Benefits

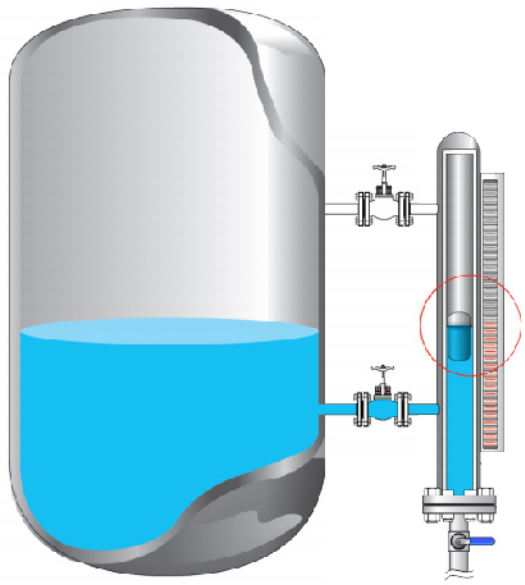
- **High-level protection:** Fully dustproof and waterproof, certified for gas and dust explosion protection.
- **Premium materials:** Made of 304 or 316L stainless steel, offering excellent corrosion resistance and durability.
- **Innovative design:** Integrated anti-loosening structure for easy replacement and maintenance; dual bearing design ensures smoother operation and longer service life.
- **Proprietary technology:** Outperforms most products on the market with a lifespan three times longer.

*Patent: 201520332293.3

| | High-Temp & Explosion-Proof | Guard |
|---|---|---|
| |  |  |
| **Applications** | • Suitable for measuring granular materials like wood chips, feed, grains, sand, ore, fly ash, resin, rubber, and plastics. It operates reliably in harsh conditions such as high temperature and dust. | |
| **Measurement Medium** | Solid granular powders ≥ 0.3 g/cm³ | Powders and fine granules ≥ 0.3 g/cm³ |
| **Process Temp** | Normal temperature: -20～70℃ High temperature: -20～400℃ | |
| **Operating Voltage** | 24V DC, 220V AC 50/60Hz | |
| **Material** | Aluminum alloy, 316L/304 | |
| **Process Connection** | Flange (standard/thin), thread, customizable | |
| **Various paddles** | Sickle type, foldable type, paddle type, straight blade type | |
| **Process Pressure** | Atmospheric pressure | |
| **Qualifications & Certifications** | • **Explosion Protection:** Flameproof Enclosure -----Ex db IIC T6~T1 Gb<br>Flameproof Enclosure -----Ex tb IIIC T80℃~T440℃ Db<br>Gas/Dust Explosion-proof -------Ex db IIC T6~T1 Gb + Ex tb IIIC T80℃~T440℃ Db<br>• **Ingress Protection:** IP65 | |

# Magnetic Level Indicator

Level | Remote | SIL Certified



## Flap-11 Magnetic Level Indicator

### Overview

Jiwei' s Flap-11 series features proprietary innovations in design and manufacturing, ensuring high reliability and overcoming common issues in similar products. It has obtained seven national invention and utility model patents.

### Principle

A bypass tube mounted on the vessel contains a float with a magnet. As the liquid level changes, the float moves, flipping magnetic flags outside the tube to show the level—clearly visible with red/white color contrast and no direct contact needed.

### Benefits

- Real-time level indication without the need for external power.
- Non-contact magnetic display, resistant to fouling or buildup.
- Optional magnetic switches and transmitters are SIL2/3 certified and explosion-proof, with IP65 or IP66/IP67 protection.

*Patents:

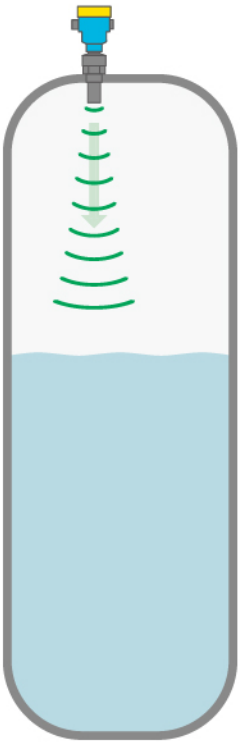
ZL 2021 20818524.7, ZL201721092126.1, ZL201721282291.3, ZL 201821348285.8 , 201621028672.4,201621183730.0, 201621192459.7

| | Economy | Plastic | Lined |
|---|---|---|---|
| |  |  |  |
| **Applications** | • Ideal for large tanks and basins, this high-visibility level gauge offers easy installation, low maintenance, and accurate measurement. It suits continuous monitoring in power plants, wastewater treatment, dyeing, hospitals, refining, and storage industries. | | |
| **Measurement Medium** | Slightly corrosive liquids with density 0.45–2g/cm³ | Acidic liquids incompatible with PP with density 0.45–2g/cm³ | Strongly corrosive liquids with density 0.8–2g/cm³ |
| **Material** | 304, 316/316L, all-aluminum flap, acrylic plate | PP, all-aluminum flap, PA66 nylon flap, glass (standard), acrylic plate | 316/316L with external F46 lining |
| **Process Temp** | -40 ~ 350℃ | -20 ~ 80℃ | ≤120℃ |
| **Process Pressure** | Vacuum ~ 100 bar | -1 ~ 6 bar | 0 ~ 16 bar |
| **Process Connection** | Flange, thread, dimensions customizable | | |
| **Range** | Single part: 200–5600 mm; multi-segment structures up to 20 meters or more | | |
| **Signal Output** | Magnetic switch: 220V AC 3A, SPDT | | |
| **Qualifications & Certifications** | •**SIL Qualifications:** SIL2 (HFT≥0)/SIL3 (HFT≥1)<br>•**Explosion Protection:** Explosion-Proof: Ex d IIC T6 Gb (Magnetic switch and remote transmitter)<br>Intrinsically Safe: Ex ia IIC T6 Ga (Magnetic switch and remote transmitter)<br>•**Ingress Protection:** IP66/IP67 | | |

# Ultrasonic Level Transmitter

Level | Non-Contact | Explosion-Proof

## Uson Ultrasonic Level Transmitter



### Overview

The Uson series ultrasonic level transmitter is designed for continuous, non-contact liquid level measurement. It operates reliably in open tanks and is widely used in chemical, power, environmental, and water industries.

### Principle

The transducer emits ultrasonic pulses that reflect off the liquid surface. The level is calculated by measuring the time between emission and echo.

### Benefits

- **High protection:** Rated IP66/IP67 for excellent dust and water resistance.
- **Explosion-proof:** Certified Exd IIC T6 Gb for safe use in hazardous areas.
- **Reliable:** High-accuracy measurement with intelligent temperature compensation.
- **Flexible options:** Corrosion-resistant and split-type models available for special applications.

*Software Copyright Registration No. 3235476

| | Standard | Explosion-proof | Transducer |
|---|---|---|---|
| |  |  |  |
| **Applications** | • Uses non-contact measurement, ideal for large tanks and ponds. Easy to install and maintain, with fast, accurate readings for industries like wastewater, chemicals, power, and marine. | | |
| **Environment** | Open tanks in safe areas | Open tanks in hazardous (explosive) areas | Hazardous conditions requiring remote monitoring |
| **Structure** | Integrated design | | Transducer model, customizable cable length over 10m |
| **Material** | Housing: Aluminum alloy | | Transducer: ABS, PVDF |
| **Process Connection** | Flange, threaded | | |
| **Process Temp** | -20 ~ 80℃ | | |
| **Process Pressure** | Atmospheric pressure | | |
| **Signal Output** | Two-wire, four-wire, RS-485, and relay outputs optional | | |
| **Range** | 5m, 10m, 15m | | |
| **Qualifications & Certifications** | •**CE:** LVD certificate, EMC certificate<br>•**Ingress Protection:** IP66/IP67 | •**Explosion Protection:** Explosion-Proof: Ex d IIC T6 Gb<br>•**CE:** LVD certificate, EMC certificate<br>•**Ingress Protection:** IP66/IP67 | •**Explosion Protection:** Explosion-Proof: Ex d IIC T6 Gb<br>•**CE:** LVD certificate, EMC certificate<br>•**Ingress Protection:** Transducer IP68 Transmitter IP65 |

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