

## Radar Level Transmitter



### JFR4 Series

- Non-contact measurement, no wear and tear, and no pollution.
- Short wavelength, reflects well on inclined surfaces.
- Unaffected by temperature and pressure changes.
- The real level echo can also be accurately read in a dusty environment.
- The 80GHz frequency is the best choice for measuring solid and low dielectric constant media
- Measurement of material working conditions with electrical constant  $\geq 1.8$ .

## Guided Wave Radar Level Transmitter



### JTR Series

- 2-wire design with HART communication.
- No moving parts and no re-calibration minimize maintenance.
- Unaffected by medium density, conductivity, temperature, and pressure.
- Handles vapor, steam, foam, buildup, and turbulence well.
- Suitable for interface level measurement. Local display for easy on-site installation.



## Ultrasonic Level Transmitter



### EAX Series

- Non-contact measurement. Easy installation.
- Maximum measurement range 8m
- Casing protection IP67.
- Probe material PVDF.
- False echo detection.
- Fully isolated analog output.
- With temperature compensation feature, which

## Grain Temperature and Level Monitoring System



### EST Series

- Real time monitoring of temperature, effectively preventing grain decay.
- Reinforced steel cable design to resist material impact and extend product life.
- Wide range of applications: cereal, corn, soybeans, wheat, flour, cement, mining etc.
- Customizable measuring position per client's request.



## Paddle Wheel Flow Meter



### EPR Series

- 128\*64 LCM display, convenient operation.
- NPN and PNP pulse output.
- 4~20mA analog output.
- Wide range of voltage supply Integrated FRAM. (Ferroelectric random access memory)
- RS485 communication interface, Modbus communication protocol. Display module can be separated.



## Vortex Flowmeter



### EPV Series

- Simple structure, no mechanical parts, durable industrial design, high reliability.
- Measures the volumetric flow rate three states: liquid, gas, and steam.
- Minimal pressure loss, wide measurement range, high accuracy.

## Flowmeter



### EPD Series

- Low affect by environmental factors.
- Wide measurement range & high efficiency.
- Enhanced self-diagnostics functions.
- Each product calibrated by international certified laboratory.



## Clamp-On Ultrasonic Flow Meter

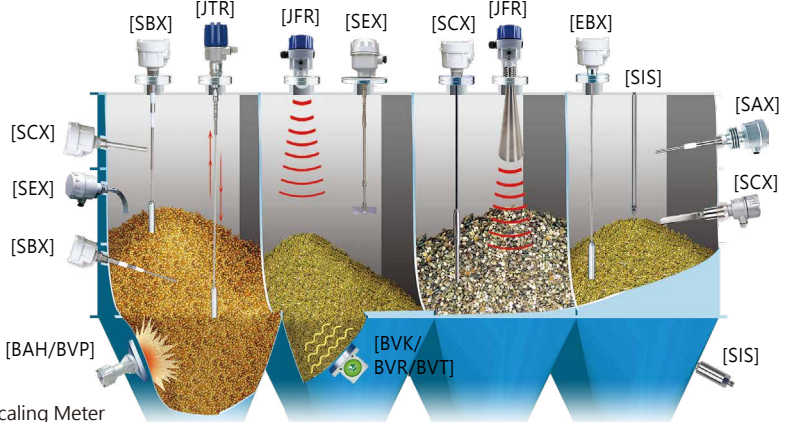
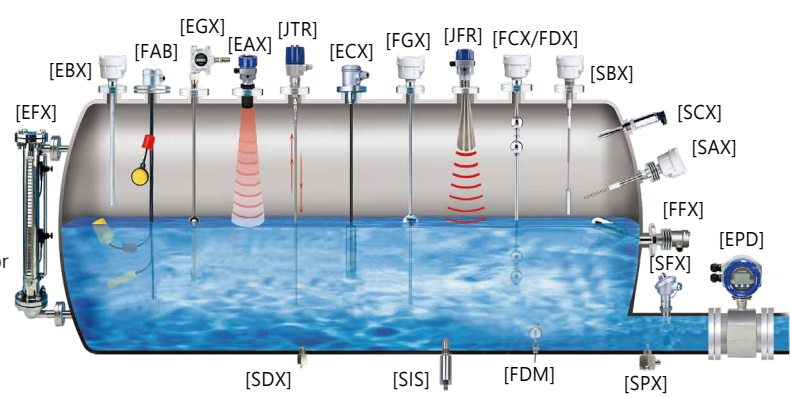


### EPF / EPU Series

- Non-invasive measurement.
- No pipe cutting, no shutdown required.
- Zero risk of contamination / leakage / pressure loss.
- 4~20mA Analog Output.
- RS-485 (Modbus) Communication Interface.
- 320x240 QVGA IPS Color Display (Compact TOF).
- LCM 128\*64 Pixel Backlight Display (TOF/Doppler).

# DEVICES-INSTALL-ILLUSTRATION

|               |                                                              |
|---------------|--------------------------------------------------------------|
| [FDM]         | Mini Float Level Switch                                      |
| [FCX/FDX]     | Magnetic Float Level Switch                                  |
| [FGX]         | Magnetic Float Level Transmitter                             |
| [FFX]         | Side Mounting Float Switch                                   |
| [FAB]         | Cable Float Level Switch                                     |
| [SPX]         | Thermal Dispersion Flow Switch                               |
| [SFX]         | Paddle Flow Switch                                           |
| [SDX]         | Optical Level Switch                                         |
| [SIS]         | Food-grade Impedance Spectroscopy Sensor                     |
| [SEX]         | Rotary Paddle Level Switch                                   |
| [SAX]         | Capacitance Level Switch                                     |
| [ECX]         | Pressure Level Transmitter                                   |
| [SCX]         | Vibrating Probe Level Switch                                 |
| [SCX2]        | Tuning Fork Level Switch                                     |
| [EBX]         | RF-Capacitance Level Transmitter                             |
| [SBX]         | RF-Capacitance / Admittance Level Switch                     |
| [EGX]         | Magnetostrictive Level Transmitter                           |
| [EFX]         | By-Pass Level Transmitter                                    |
| [EAX]         | Ultrasonic Level Transmitter                                 |
| [EPD]         | Flowmeter                                                    |
| [JFR]         | FMCW Radar Level Transmitter                                 |
| [JTR]         | Guided Wave Radar Level Transmitter                          |
| [EDX]         | Speed Monitor                                                |
| [SRT/SRS]     | Conveyor Belt Misalignment Switch & Safety Cable Pull Switch |
| [PBX/PMX]     | Microprocessor Based Bargraphic Display Scaling Meter        |
| [BRC/AEX]     | Valve and Controller for Dust Collector System               |
| [BAH/BVP]     | Air Hammer                                                   |
| [BVK/BVR/BVT] | Pneumatic Vibrator                                           |



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# PRODUCTS GUIDE

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## By-pass Level Transmitter



### EFX Series

- Materials available: stainless steel, PP, PVDF.
- Operation temperature up to 350°C;
- Operation pressure up to 100Bar.
- Plastic material is acid and alkali-resistant, including PP (80°C) and PVDF (temperature resistance 120°C); pressure resistance 5kg/cm².
- Green indicator every 5cm for easy identification.
- Liquid level transmitter resolution output: 6.35mm, 4~20mA.



## Magnetostrictive Level Transmitter



### EGX Series

- Absolute position measurement.
- Fast measurement and response.
- High stability and reliability.
- Multiple output methods to choose from.
- Easy installation, regular adjustment and maintenance unneeded.
- High resolution and precision.
- Compact, strong adaptability, anti-dirt, dust-proof, high-pressure resistance.
- Shell protection IP67 (IEC60529).



## Mini Float Level Switch



### FDM Series

- Lightweight, easy to install & use, high performance and reliable.
- Suitable for high-temperature and high-pressure environments with all types of strong acids.
- Operating temperature: 80°C~200°C(max.).
- Safety certification: UL(U.S.A), CE(Europe)



## Side Mounting Float Switch



### FFX Series

- Max. Operating temperature: 350°C
- Available float types: SUS float with diameter  $\phi 41mm$ ,  $\phi 50mm$  and  $\phi 75mm$ ; PP plastic float with diameter  $\phi 44*50mm$ .
- Specific gravity of float: S.G. 0.25, 0.55, 0.65, 0.7.
- Passed certifications from renowned International shipping association: ABS, BV, DNV-GL, LR.



## Magnetic Float Level Switch



### FCX/FDX Series

- P.P., PVDF, SUS304, SUS306 flats of various sizes  $\phi 28-v50$ .
- Suitable for high-temperature and high-pressure environments with all types of strong acids.
- Passed certifications from renowned international shipping association: ABS, BV, DNV-GL, LR.
- Passed explosion-proof certification: NEPSI, PTB ATEX.



## Flexible Magnetic Float Level Transmitter



### FGX Series

- The casing is designed to avoid damage during transportation, installation, or when in use.
- Unaffected by changes in environmental temperature and pressure change.
- Choose a flexible type to facilitate transportation and installation.
- Easy installation; does not require regular adjustment & maintenance.
- Measurement range: up to 30m.



## Programmable Sequential Controller (Continuous Expansion Type)

**AEX6 Series**

- Output points can be increased up to 620 points.
- Equipped with a remote control function, therefore making it easy to start & stop operation.
- Has a shutdown function for the cleaning cycle (the exhaust fan stops cleaning the tube) to avoid clogging caused by moisture in the dust.
- Can be connected to a 4~20mA input (differential pressure or dust pressure).
- When the set value is reached, the interval time will automatically be shortened to improve performance.

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## Diaphragm Valve

**BRC Series**

- Fast response, large flow rate, good reverse cleaning effect, less energy consumption.
- Sizes available: 3/4", 1-1/2", 2", 2-1/2", 3". Material: Aluminum.

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## Accessories of Diaphragm Valve for Dust Collector

**BDB Series**

**Connector:**

- Convenient for users to install ash cleaning system on the dust collector.
- Welding not needed during installation, making disassembling easy during maintenance.

**Remote Control Box/Solenoid Valve**

- Fluid: Air
- Diaphragm material: NBR
- Operation temp.: -20~85°C

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## Speed Monitor

**EDX Series**

- Maximum monitoring range: 0~150rpm/1~999rpm.
- Alarm monitoring functions: low speed, stop, reverse, power failure, and overload.
- Start-up delay monitoring function.
- Avoid instantaneous speed changes with an alarm delay function.
- Light signals are unaffected by environmental conditions.
- Lightweight, sturdy housing provides waterproof, anti-collision and anti-corrosion protection.

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## Conveyor Belt Misalignment Switch

**SRT Series**

- Contact capacity: 15A/250Vac
- With adjustable lever arm operable in both directions.
- When the lever arm returns to its original position, an output alarm will signal at 20°, and an output alarm will signal at 35°.
- Automatically returns.
- Applicable in dust-proof and explosion-proof areas.

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## Safety Cable Pull Switch

**SRS Series**

- Contact capacity: 15A/250Vac
- Can be positioned at any part of the conveyor belt.
- Manual reset switch.
- Pulling force : 5kgf
- The indicating plate turned upright being identified as the switch actuated.
- Applicable in dust-proof and explosion-proof places.

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## Pressure Level Transmitter

**ECX Series**

- With SUS316 diaphragm.
- Operating temperature: -10~80°C (Max.200°C).
- Pressure range: 0.1~400Bar single pressure.
- High linear accuracy: 0.3%FS/4~20mA output.
- Power supply: 13~36Vdc.
- ECX1 display type has two color display.
- Red display for alarm.
- ECX1 display type is designed with an anticorrosion structure, suitable for low-corrosive solutions.

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## RF-Capacitance Level Transmitter

**EBX Series**

- Can be used in tanks of various sizes containing high-temperature or acid-based materials.
- Unaffected by changes in vapor, sound waves, pressure, and temperature.
- Operating power supply: 24Vdc. Output current: 4~20mA.
- The electrode material cover is made of steel, PVDF, PP or FEP.
- Steel cable diameter: 9mm. Maximum strength: 5 tons.
- Operating temperature: up to 200°C.
- Input signal and lightning isolation output can prevent lightning damage.

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## Capacitance Level Switch

**SAX Series**

- Operating temperature up to 800°C.
- Function for delayed action with adjustment range 0~6 seconds.
- Power supply: 110V/220Vac or 24Vdc.
- Standard connection size 1"PT, special specifications customizable.
- No moving mechanical parts, therefore, no wear and tear.

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## RF-Capacitance / Admittance Level Switch

**SBX Series**

- Can be used in materials that bond and attach easily.
- Has a delayed output function, with a range of 0~30 seconds.
- Has a failure prevention function, DPDT relay output contact.
- Temperature resistance up to 550°C.
- Passed NEPSI, PTB ATEX explosion-proof certification.

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## Vibrating Probe Level Switch

**SCX Series**

- Power supply: 20~250Vac/Vdc, 50/60Hz.
- Output: SPDT Relay, SSR MOSFET.
- No calibration required. Ease of use, rugged design.
- High/Low failure safe modes. Safe and reliable operating.
- SCX6 density can reach as low as 0.04g/cm³
- SCX6 operating temp.: -40~150°C

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## Tuning Fork Level Switch

**SCX2 Series**

- Large power supply: 20~250Vac/Vdc, 50/60Hz.
- Output: SPDT Relay, SSR MOSFET.
- No calibration is required. Easy to use, durable.
- High/Low failure safety function. Safe and reliable.
- Can be adjusted according to materials of different densities, including fine particles.
- Passed explosion-proof certification: NEPSI, PTB ATEX.

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## Rotary Paddle Level Switch

**SEX Series**

- Adjustable motor torque with a clutch device to protect the motor.
- Blades of various shapes and sizes to suit different tanks.
- Operating temperature: up to 200°C.
- Various power supplies available: 110/220/240Vac, 24Vac, 24Vdc.
- Unique sealing ring design to protect dust permeation.
- Passed explosion-proof certification: NEPSI, PTB ATEX.
- Suitable for chemical, food, mining, plastic, and ceramic industries.

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## Cable Float Level Switch

**FAB Series**

- Available float material: stainless steel, PP, PVC.
- Switches available: micro switch 3A/10A, reed switch 50W/300Vac.
- Simple installation with adjustable switches.

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## Liquid Leakage Sensor

**SDL1 Series**

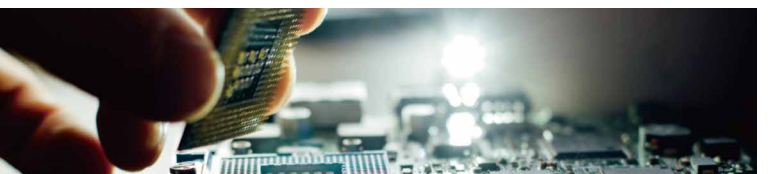
- The optical type can measure a variety of liquids and is unaffected by
- With a digital interface that can be quickly set by using the buttons.
- PFA material, suitable for acid, alkali, liquid medicine, pure water, and other liquids.
- Complete output type selection, NPN or PNP type.
- Comply with IP67.
- Comply with lead-free standards and CE certified.

## Thermal Dispersion Flow Switch

**SPX Series**

- Stainless steel material with a pressure resistance of up to 100Bar.
- With a digital interface that can be quickly set by using the buttons.
- 10-digit LED display with multi-segment display for a more accurate record of flow rate.
- Fully airtight, unaffected by condensation, usable in both vertical and horizontal pipelines.
- Flow detection range (flow rate): water 1~150cm/s, oil 3~300cm/s.

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## Paddle Type Flow Switch

**SFX Series**

- Wetted material: SUS304.
- Operating temp: 30~150°C.
- Contact rating: 60W/220Vdc SPDT.
- Applicable pipe diameter: 1" ~3" .
- Operating pressure: 355 psi.

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## Optical Level Switch

**SDX Series**

- NPN, PNP open collector output to energize relay or PLC.
- Housing material: PC, PES suitable for acidic liquids, and alkaline; SUS304 suitable for oil, wastewater, alcohol etc.
- Over-current and reverse polarity protection.
- LED indicator status alarm.
- Application: liquid leakage detection, motor/pump protection.

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## Pressure Switch

**SQX Series**

- Usable in harsh environments.
- Customized housing (all steel types).
- Customized contact material (silver or gold alloy).
- Connection type: screw, socket, terminal, and external.
- High quality and cost-effective, with adjustable pressure range.

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## Food-grade Impedance Spectroscopy Sensor

**SIS Series**

- Easy installation with standard connectors, with protection grade of IP67/IP68/IP69K.
- The overcurrent protection can detect overly high current output and switch off the output immediately.
- Usable in CIP and SIP clean environments.
- Unaffected by foam and viscous mediums.
- Suitable for liquid, viscous and powdery mediums in containers and pipelines.
- For single-point liquid level detection and protection of idling water pumps.

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## Air Hammer

**BAH/BVP Series**

- Highly strengthened aluminum body.
- Low frequency, continuous vibration.
- Frequency and amplitude can be adjusted as required.
- No power supply needed, can be used in explosion-proof areas.

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## Temperature Transmitter

**TRX Series**

- Input signal: mV, V, mA, thermocouple, RTD or Ohm.
- Accuracy: ±0.5%.
- Loop power: 12~32 Vdc.
- Special software can be used to set equipment parameters.

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## Diaphragm Valve

**PVD1 Series**

- Fluid resistance is small.
- Suitable for corrosive, viscous and slurry media
- EPDM+PTFE material diaphragm is optional, suitable for corrosive acid and alkali liquids
- There is a position indicator with a yellow mark for action instructions.

## Pneumatic Vibrator

**BVK/BVR/BVT Series**

- Inexpensive, long lifespan.
- Best instrument for cleaning blockage in small barrels or pipelines.
- Instant start or stop without causing inertia to the motor, avoiding damage to the equipment.
- No power supply required; can be used in explosion-proof areas.
- Small, easy installation, easy control.

CE

