FineTek

PRODUCTS GUIDE

Total instrumentation for Chemical Industry

www.fine-tek.com

Solid / Liquid Level Measurement for Field Application
Temperature Controller/ Digital Panel Meter

Your BEST Partner

Finetek is your best partner to solve your measurement needs to maximize your production efficiency, minimize product loss, and maintain the highest standards of safety without sacrificing quality.

Finetek manufactures world class standard and customized measurement solutions for a wide range of industrial automation and process control applications in the liquid and solids level, flow, pressure, and temperature.

The company is constantly developing and innovating, and has successfully expanded its operations both locally and internationally, achieving global success and recognition for quality products and services.

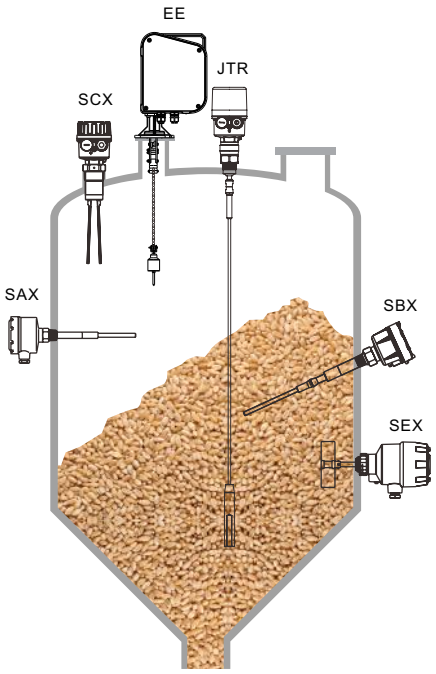
Expert In Flow And Level Measurement Solutions

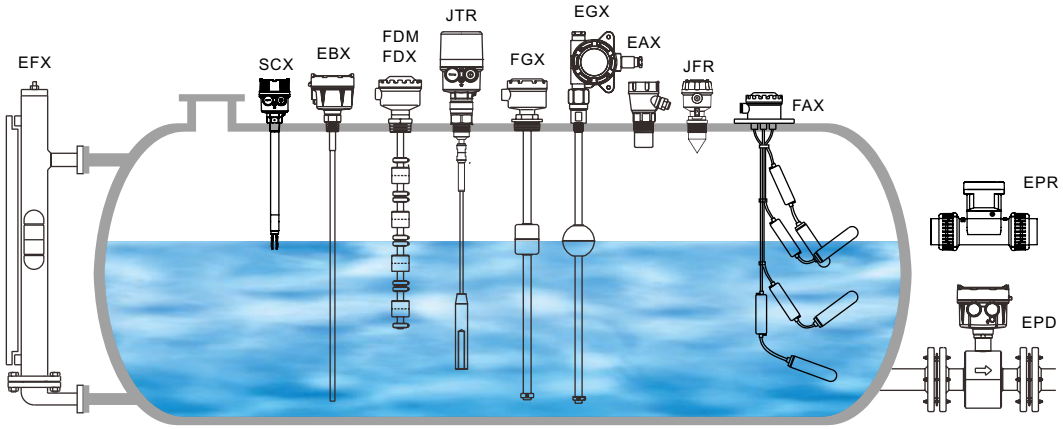
Finetek manufactures world class standard and customized measurement solutions for your chemical measurement applications in the liquid and solids level, flow, pressure, and temperature. FineTek is your best partner to solve your measurement needs to maximize your production efficiency, minimize product loss, and maintain the highest standards of safety without sacrificing quality.

Process Application

Product selection for liquid and solids measurement

- Radar Level Transmitter: corrosive and toxic liquids, hydrocarbons, and slurries level detection
- Guided Wave Radar Level Transmitter: Powder & Bulk Solids and liquid level detection
- Ultrasonic Level Transmitter: Liquid and slurry level detection
- By-Pass Level Transmitter: By-Pass liquid level detection
- Electromechanical Level Measuring System: Solids level detection
- Magnetic Float Level Transmitter/Magnetostrictive Level Transmitter: Liquid level detection
- RF-Admittance Level Transmitter: Powder & Bulk Solids and Liquid level detection
- Electromagnetic Flow Meter/Paddle Wheel Flow Meter: Liquid flow detection
- Magnetic Float Level Switch: Liquid level detection
- Cable Float Level Switch: Liquid level detection
- Capacitance Level Switch/ RF- Admittance Level Switch: Powder & Bulk Solids and liquid level detection
- Tuning Fork Level Switch / Rotary Paddle Level Switch: Powder & Bulk Solids and liquid level detection





FineTek

JTR Guided Wave Radar Level Transmitter

Guided wave radar level transmitter uses advanced echo wave processing technology with a wide range of product applications that is capable of measuring the low dielectric constant of solid level, liquid level and two different liquid medium level and their interface.

Guided wave radar devices have no moving parts and require minimum maintenance. The product models include coaxial, tube/rod, steel wire cable type for the customer's choice, suitable for high temperature and high pressure medium liquid level measurement.

Key features of the JTR guided wave radar level transmitter include cost effective 2-wire power supply to simplify installation, optionally available HART digital communications; built-in display for easy setup; a wide range of mounting connection sizes and types; 5mm measurement accuracy with rapid level reading; reduced maintenance with no calibration required and no moving parts; can withstand CIP process; dual liquid level interface measurement; and able to measure sticky and paste like medium in the process.

FEATURES

- Meets the various measurement requirements of different temperature, pressure and medium.
- Contact measuring, capable of overcoming the steam, foam and tank agitation stirring effects.
- 4~20 mA / 2-wire, simple wiring, low power consumption (2.4W max.).
- 128*64 LCM Display, easy on-site adjustment. Displays distance, level, percentage, current 4~20 mA.
- Unique algorithms and echo wave processing technology can be used for various types of complicated applications.
- Echo wave graphics display function, to display the signal waveform inside the tank, can be used for background noise processing.
- Capable of simulating output current signal of 4~20mA.

SPECIFICATIONS

Power supply	16~36Vdc 2-Wire Loop Power, 16~36Vdc 4-Wire
Analog output	4~20mA
Measuring range	6m(Rod Type)、20m(Cable Type)
Digital communication	HART 7.0 for 2-Wire, Modbus for 4-Wire
Enclosure	IP67
Explosion protection	Aluminum Alloy Material
Ambient temperature	-40~80°C
Operating temperature	-40~230°C
Accuracy	±5mm
Repeatability	±3mm
Operating pressure	0~60bar(25°C)

※The specification is subject to the brochure.

JFR Radar Level Transmitter

The JFR series is an open-air radar level transmitter product line designed for measuring liquids and bulk solids in tanks, bins and silos. These radar level transmitters are designed to operate at 26GHz and use FMCW (frequency modulated continuous wave) radar technology. An FMCW radar level transmitter emits a high frequency signal via an antenna towards the material surface. A part of the radar energy is reflected off the material surface back to the radar level transmitter at some time delay.
The difference in frequency between the transmitted signal and received signal is directly related to the distance being measured by the radar level transmitter. This frequency difference is processed by the electronics As a result the linearity and accuracy of the measurement made by the JFR radar level transmitter is excellent, with an error rate as low as only ± 0.197" (5mm).

FEATURES

- Measurable corrosive and toxic liquids, hydrocarbons, and mud.
- Not material specific gravity, temperature, viscosity, foam, dust change action.
- Echo graphical display, show tank within the signal waveform. Can be excluded from the barrel fixed obstacles.
- Distance, level, the percentage of current 4-20mA. The isolated circuit architecture interference ability.
- With CE certificate (EMC)(EFT 2000V, B class above)

SPECIFICATIONS

Measuring range	40~70M
Accuracy	±3mm(optimal)
Communication	RS485 (Isolated)
Ambient temperature	-40~80℃(LCM<75℃)
Operating temperature	-40~200℃
Operating pressure	0~40Bar
Frequency	K Band
Analog output	4~20mA/HART
IP rating	IP67
Mining dielectric constant	1.5
Power supply	9.5~30Vdc (4-wire) 24Vdc+/-10% (2-wire)
Live display	Five-digit backlight LCM
Housing	Aluminum alloy material
Antenna type	High gain horn(100D/140D)
Antenna material	SUS 304/316
Blind distance	500mm

※The specification is subject to the brochure.

Recycling tank for kitchen waste, to extract glycerin and fatty acid, and use our JFR products to do the continuous level detection.

EAX Ultrasonic Level Transmitter

The ultrasonic level transmitter is a non-contact, low-cost and easy-to-install measuring device. It can be applied to most industrial applications for liquids. Most important aspect of is that it is easy and low maintenance due to no moving parts.
It features an exclusive PULSE and AGC (Auto Gain Control) echo tracking technology to ensure accuracy and precision even in the harshest environments.
Compact desingn with multi-parameters modes and a LCD display. It can detect level moving up to 10m/min making it one of the industry's quickest. The PVDF transducer is ideal for use in corrosive applications. Selectable FER function which enables the instrument to identify obstructions within the path of the ultrasonic beam, memorizes their position and them during the measuring process.

FEATURES

- Non-contact measurement, not affected by the pressure, viscosity and specific gravity of the material.
- Easy installation, cost saving and no need for regular maintenance under normal conditions.
- Equipped with internal temperature compensation to enhance the product accuracy and long term stability.
- All isolated analog output.

SPECIFICATIONS

Transducer material	PVDF
Temperature	-40~70°C
Power supply	7~30Vdc at the terminal
Accuracy	±0. 25%
Measuring range	0 ~ 12M
Output	4~20mA
Enclosure sealing	IP67
Communication	HART

※The specification is subject to the brochure.

EFX By-Pass Level Transmitter

The EF series By-Pass are magnetic level gauge product line capable of providing local visual indication, level switch activation and a continuous level transmitter output, all from a single device.
Visual indicators, level switches and magnetically activated level transducers can be attached to the magnetic level gauge by-pass chamber and are all activated by the magnet inside the float as it rises and falls in the chamber. These magnetic level gauge units are safer than glass level gauges that they replace. Applicable in environment with high temperature, high pressure, strong acid, strong alkaline and hazardous locations. The structure is simple but yet durable and reliable. It is also available with various options for upgrade.

FEATURES

- Modularize the transmitter and indicator to enhance product reliability.
- The float has a wide range of magnetic lines and is evenly distributed. It can be used for 360 full-angle sensing.
- The smallest magnetic switch in the current market (Patent No.137824)
- Innovative deign for bottom end flange (Patent No.135002)
- Unique anti-burst technology to make the inner wall of the tube smoother and reduce the friction of the float
- Obtain international high-pressure capacity welding license to ensure the reliability of pressure vessel

SPECIFICATIONS

Wetted material	PVDF / PP / SUS304 / SUS316
Resolution	10mm
Operation temp.	<400˚C depend on wetted material
Supply voltage	None
Float S.G.	>0.55 of water
Pressure	110 Kg/cm^2(max.)
IP protection	IP67
Switch	Contact form: SPST, SPDT contact capacity: 1A/30W /200VDC/240VAC
Transmitter	Resolution : 6.35mm /0.1mm Output 4-20mA / 3-wire resistance output

※The specification is subject to the brochure.

EEX Electromechanical Level Measuring System

SPECIFICATIONS

Power supply	88~264 Vac 50/60Hz
Analog output	4~20mA±1%
Accuracy	Transistor output NPN/PNP (10mm/pulse) Relay output 3A/250Vac (100mm/pulse)
Operating temp.	-40°C~80°C
Measuring distance	Max. 30m
Measuring speed	Avg. 0.23m/s
Protection rating	IP66
Body material	Aluminum
Display	LCD (Dot matrix, 8x2), LCM (Graphic, 128x64 Dots)
Relay output	SPDT 3A/250Vac * 3 (high/low/break/ buried alarm)
Alarm function	Wire broken/ plumb buried/ material feeding protection
Operation mode	Intelligence, automatic timing, manual, external start-up

* Please refer to completed specifications in single catalogue for this product

FEATURES

- It is not affected by environmental factors (such as sound waves, dust, static, change in temperature and humidity) which could influence measuring result.
- The microprocessor is easy to use and operate.
- It has complete functions.
- It can set alarms for high and low. (contact 3A/250Vac SPDTx2)
- Display unit: LCD Dot matrix (8x2 backlight) Pulse output: transistor output NPN, PNP (10mm/pulse)
- Relay output 3A/250Vac (100mm/pulse) Wire broken detection: when the wire gets broken as in measurement, the system can automatically detect and display the problem.
- Detection of plumb buried: the system automatically detects and displays as the plumb buried as in measurement.
- Protection against plumb buried: when the plumb comes into contact with materials from feeding or collapsed from vessel's wall, the system would terminate measurement and be forced into standby mode, so as to prevent the plumb gets buried.
- Four detection modes: automatic timing start, manual start, intelligent start and external start modes can be set depending on requirements. Intelligent start: detection frequency can be increased gradually as detection distance shortens.
- Safety distance: falling of the heavy plumb to the discharge gate can be avoided by setting a limited distance of measurement; as this falling of plumb could cause the stuck of plumb or damage the material conveyor.
- Material feeding protection: the measuring action will be terminated instantly and retrieve the plumb as the receiving the feeding signal (ON), so that it can reduce the risk of plumb bury.
- Measuring distance: Max. 30m.
- Communication interface: RS485
- Various specifications for plumbs to meet different requirements
- Anti-freeze device: it can operate normally in cold, outdoor environments.

EBX RF-Admittance Level Transmitter

The EB Series RF Admittance Level Transmitter is used in measuring the continuously changing level of granular, freely flowing powders and liquids in a variety of industrial applications.
The EB series level transmitter uses RF admittance technology to continuously measure the changing impedance between the sensor probe and the vessel metal wall. A solid rod probe, cable probe, two-rod probe and anti-wave tube type probe are available to allow the EB continuous level transmitter to be used in a wide variety of level measuring applications in many industries. High temperature and explosionproof versions are available.
The EB5 series level transmitter is easily installed with a simple 2-point calibration, has excellent sensitivity and a very low temperature effect. In addition, a wide variety of process connections is available, both threaded and flanged.

FEATURES

- 4~20mA 2 wire Loop power
- Low consumption of power (20mA Max)
- High accuracy of linearity (<A1% FS or A0.5pF)
- Temperature compensation, low temperature effect(A0.2% FS/°C or 0.1pF/°C)
- Easy calibration (Any 2 points for calibration)
- No blind distance, ideal for different tanks
- Suitable for high temperature, high pressure and corrosive environment
- LCD local display

SPECIFICATIONS

Operation voltage	18~30Vdc
Analog output	4~20mA(two wire)
Digital output	HART (option)
Probe material	US304/316, PFA Coating
Connection	1"PT, JIS 1"x5 Kg/cm2 (Other types are optional)
Operating temperature	-40~85°C (max 200°C)
Measuring range	20~2000pF
Accuracy	±1%FS or 0.5pF
Effect temp.	<±0.2%FS/°C or 0.1pF/°C
Operating pressure	max. 40Kg/cm^2 (Coating max. 32Kg/cm^2)
Protection	IP65 Aluminum alloy paint
Ex-proof	PTB ATEX (option)

* Please refer to completed specifications in single catalogue for this product

FGX Magnetic Float Level Transmitter

The FG Series Magnetic Float Liquid Level Transmitter is used for measuring the continuously changing level of a variety of liquids within many industries including water/wastewater treatment, chemical processing, petrochemical, fuel and many general industrial and commercial level measurement applications.
Using state-of-the-art reed switch technology the FG series level transmitter will provide a 2-wire 4-20mA or 3-wire resistance output directly reflective of the changing level of a fluid in a tank or other type of vessel. Wetted materials can be a variety of stainless and plastic. Enclosure materials of construction are available in aluminum, plastic and 316SS. A wide range of threaded or flange process mounting connections are available to meet the needs of virtually any installation.
The FG magnetic float level transmitter is cost effective, of high quality and reliability and offers a Measurement resolution of 0.25” (6.35mm) and 0.5” (12.7mm). It is available for use with fluids with a specific gravity of 0.5 and above, and available in explosion proof rating.

FEATURES

- Various optional wetted materials.
- A variety of float specifications, also suitable for a variety of liquid with different specific gravity.
- Special reed packaging process, with better environmental durability.
- Can be used for the liquid level of ultra-light density.
- Suitable for use in the environment with pressure in the tank.
- Can be used for high temperature liquid.
- Accuracy is not affected by temperature, pressure, and changes in the measured object.

SPECIFICATIONS

Wetted material	PVDF / PP / SUS304 / SUS316
Operating temp.	<120°C
Supply voltage	Loop Power 12~36 Vdc
Linearity	>0.45 of water
Pressure	30Bar (Max.)
IP rating	IP65
Explosion-proof	ATEX 2G Ex d IIB T6~T3 Gb (Optional)

※The specification is subject to the brochure.

EGX Magnetostrictive Level Transmitter

The EG employs the use of magnetostrictive technology to precisely and reliably measure the continuously changing level of a wide variety of fluids. Accurate level measurement is important for precise control of a wide range of processes.
The EG series includes the EG31, standard, high temperature and anti-corrosive versions in a 2-wire design. The EG32 and EG34 are high accuracy versions of 2-wire and 4-wire designs providing as good as 0.004" (100 μ m). The EG36 and 37 are Explosionproof and intrinsically safe versions for use in hazardous areas. Analog, MODBUS RS485 and HART signal outputs are available, single or dual float versions (can be used for interface Measurement), and an integrated temperature measurement function and many other features and options are available.

FEATURES

- Absolute position output, no need to zero position if power shut down.
- Fast response.
- High stability and reliability.
- Easy to install, and do not need regular calibration and maintenance.
- High-resolution, high-precision.
- Compact structure, environmental adaptability, stain resistant, dust-proof, resistant to high pressure.
- Enclosure protection class IP67/IP69K.
- Loop power system, saving wiring costs.
- HART or RS485 communication interface and 4~20mA output.

SPECIFICATIONS

Be applicable	2 Wire Loop Power output, high precision, comply with HART certification
Measuring range	50~5500mm
Non-Linearity	±0.05% F.S. or ±1.0mm (whichever is greater)
Repeatability	±0.04% F.S.
Operating pressure	30 BAR (max)
Ambient temp.	-40℃~ 85℃
Operating temp.	-40℃ ~ 125℃
Temp. accuracy	±1℃
Analog output	4~20mA/ 2 Wire
Maximum load	(VS-18)÷0.02 VS=voltage
Digital output	RS485 / HART 7.3(Option)
Supply voltage	12~30V(4 Wire),16~30V(2 Wire), 16~28V(Explosion proof)
Housing	SUS304(SUS316 Option)
Connection	1/2"PT
Wetted material	SUS304
IP rating	IP67 (housing) / IP69 (probe)

※The specification is subject to the brochure.

EPD Electromagnetic Flowmeter

Electromagnetic flow meter (EPD) is a high-accuracy flow meter manufactured based on the latest technology. EPD30 offers the industry's widest range of liners, electrodes and sizes to match various applications in pulp and paper, chemical, power, metallurgy, waste water treatment, pharmaceutical, food and beverage, etc. It is well suitable for any full conductive liquid in the enclosed pipe, and even the thick fluid.
Measurement results are not affected by the changing in liquid density, viscosity, temperature, and pressure. idely applied in the conductive liquids that may contai n fiber, solid granules and suspended matters. Wide measurement turndown ratio can be reached 1:100, which can be set randomly and achieved high accuracy for low flow rate measurement.
Includes self-diagnosis function to check magnetizing signal, empty pipe and contaminated electrode. Every flow meter has passed and certified by ilac/ TAF (ISO 17025) library test.

FEATURES

- The measurement results are not affected by the change in liquid density, viscosity, temperature, pressure and conductivity.
- It can be widely applied in the conducting liquids that may contain fiber, solid granules and suspended matters.
- Enclosure protection rating: IP67/NEMA 4X
- Suitable for all kind of acid/alkaline environment

Standard Type

Remote Type

SPECIFICATIONS

Accuracy	±0.5%、±0.3%、±0.2%
Medium temp.	80°C(NBR)、120°C(PTFE)
Ambient temp.	-40°C~70°C
IP rating	Standard type IP65, Remote type IP68
Electrode material	Stainless steel, Hastelloy, titanium, tantalum
Lining material	PTFE, Synthetic rubber, neoprene
Flange material	Carbon steel, Stainless steel
Measuring pipe	Stainless steel
Analog output	4~20mA, frenquency2~8KHz
Communication interface	RS485
Supply voltage	AC100~240V or DC24V

※The specification is subject to the brochure.

EPR Paddle Wheel Flow Meter

FineTek EPR Series Paddle wheel Flow Meters are easy to install, ultra-compact and a great value for many full pipe liquid flow applications.
It features high accuracy paddle wheel sensor, T-mount installation quick fittings, with or without 128*64 LCM Meter display, lightweight plastic designenables mounting in any position.
The paddle wheel meter also generates a frequency and voltage signal which is proportional to the flow rate from 0.3~10m/s.
Once the EPR Paddlewheel Flow Meters is installed, its meter head and mechanical portion may be quickly removed for maintenance or replacement.

FEATURES

- 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

SPECIFICATIONS

Type	Intelligent All-in-One Model / Non-Display Model / Pulse Output Model
Applicable pipe diameter	DN20、DN25、DN40、DN50
Flow rate range	0.3~10m/s
Accuracy	±3% under standard K value
Measuring principle	Magnetic induction
Operating temp.	Engineering plastics: -15~60°C(5~140°F) Stainless steel: -15~100°C(5~212°F)
Protection rating	IP66, the connector shall be connected and securely fastened
Analog output	4~20mA
Power supply voltage	12~36Vdc ±10%
Commun-ication Interface	RS485 Modbus

※The specification is subject to the brochure.

FCX/ FDX Magnetic Float Level Switch

The FCX/FDX Magnetic Float Level Switch features a rugged construction with a wide range of materials including SUS304, SUS316, PVDF, polypropylene, and PVC which makes it suitable for applications in chemical corrosion of acidity and alkalinity liquid, solvents or oil fuels. Employing the magnet to actuations. Single or multiple switch measuring points. Simplified installation for multiple level switch points rather than installing multiple level switches. Very cost- effective for top mounting. Especially when multiple switch points are Required.

FEATURES

- Adjustable switch with manual reset mode
- Easy to install on the terminal or at both ends of the conveyor belt
- Die cast ADC enclosure. Good air tight characteristics. IP67 protection level.
- Alarm & shutdown signal output: The pull switch lever moves 30 degree
- There is quick response at any position of the cable.

SPECIFICATIONS

Material	PVDF / PP / SUS304 / SUS316
Operating temperature	< 200°C
Contact	SPST-NO / SPST-NC /SPDT
Contact rating	10W / 20W / 50W
S.G. of float	> 0.5 (relative to water)
Operating pressure	Maximum: 50 Bar
IP rating	IP65
Explosion proof	ATEX 2G Ex d IIB T6~T3 Gb (optional)

* Please refer to completed specifications in single catalogue for this product

FAX/ FBX Cable Float Level Switch

The Float Level Switch is made from chemical resistant polypropylene. These level switches are durable, low-cost, and specifically designed for single and multi-point liquid level detection over a wide range of lengths. It I also suitable for tanks containing pumps and granular solutions.

FEATURES

- Suitable for long-distance, multi-level control,
- Submerged pump or containing particulate / liquid control of the bulk impurities.
- Has the best environmental tolerance, easy to replace, and cheap.

SPECIFICATIONS

Float material	PVC / PP / SUS304
Operating temperature	60°C / 70°C / 170°C(Optional)
Contact form	SPST-NO / SPST-NC /SPDT
Contact capacity	10A/250Vac or 15A/250Vac 1A/230Vac or 3A/125/250Vac
Actuation angle	28°±2°, 18°±4°, 10°±2°
Pressure	2kg/cm^2
Wire voltage	600Vac
Isolation resistance	>100MΩ

* Please refer to completed specifications in single catalogue for this product

SAX Capacitance Level Switch

FEATURES AND PROPER APPLICATION

The direct capacitance level switch has a simple and none mechanical transmission structure, so no concern in abrasion. It can be used in measurement of solid materials, dust, liquid, and etc. It has thread connection to ensure easy installation in various working sites. The products are classified to following types depending on its structure and suitable application:

- Standard type (SA110 & SA111A/B/C): suitable for use in general working sites
- High temperature type (SA120 & SA128A/B/C): suitable for use in high temperature environments
- Acid and alkaline resistant type (SA130 & SA132A/B/C): suitable for use in chemical & electroplating process
- Remote probe type (SA140A/B/C): suitable for use in vibrating environments
- Wire probe type (SA150A/B/C): suitable for use in large-size tanks
- Plate type (SA160A/B/C): suitable for silos containing bulk material or for lower limit of large-size tanks
- Explosion-proof type (SA270~SA279) explosion proof and DIP certified : suitable for use in places with risk of dust explosion
- Intrinsically safe type (SA370~SA378) intrinsically safe certified : together with SA-75U, suitable for use in dangerous areas with high risk of explosion

SPECIFICATIONS

Power supply	110/220Vac ±10% or 19~24Vdc
Contact rating	SPDT 5A/250Vac/30Vdc, NPN crystal output
Probe material	SUS304/316, PP, PVDF coating
Connection	1”PT JIS 1-1/2”x5 Kg/cm^2 (other specification can be customized)
Operating temperature	-20~80˚C(Max. 800˚C)
Insulating material	UPE, PEEK, ceramic
Housing	IP65 aluminum alloy baking varnish
Sensitivity	10pF (Std)
Delay time Setting	0~6 sec
Certificatel-ntrinsically	Safe Explosion Proof (optional)

* Please refer to completed specifications in single catalogue for this product

SBX RF-Capacitance/Admittance Level Switch

The SB series RF-capacitance/admittance point level switch an advanced RF level switch, at an affordable price.
RF-Capacitance/Admittance level switch is appropriate for application in liquid and solid mediums. It is designed to reduce medium attaching to the probe.
This product also offers DPDT output, high/low level failsafe, adjustable time delay, and sensitivity adjustment. Various models are available for high temperatureerature,or limited space environments.

FEATURES

- It is not affected by material adhesion.
- It is easy to install and adjust.
- It has good stability and not affected by temperature.
- It's with delay time function, 0-30s IP65 protection
- DPDT, 5A/250Vac contact output
- Maximum operating temperature of 550℃ (450℃ for explosion proof type)
- Switchable high/low level fail safe protection alarm function
- Suitable for measuring liquid, viscous liquid, solid, granules and etc.
- Simulation alarm test function
- Explosion Proof EEx d IIB T1~T6 (SB17 series)

SPECIFICATIONS

Housing	Aluminum alloy baking varnish (IP5)
Probe material	SUS304 or 316
Insulation material	PTFE or ceramic
Connection	3/4"/ 1"PT (other specification can be customized)
Sensitivity	0.3PF
Power supply	24Vdc±20% or 115/230Vac±10%, 50/60Hz
Power consumption	Max. 2 W
Output contact	5A/250Vac，DPDT
Operating temperature	-40~150℃/550℃
Delay Time Setting	0-30s
Fail Safe Alarm	Low or high (switchable)
Cable gland	1/2"NPTx2
Operating pressure	ATM~ 20kg/cm²

* Please refer to completed specifications in single catalogue for this product

SEX Rotary Paddle Level Switch

The rotary paddle level switch is to detect
The presence of solid/powder material. The unit is usually located through a bin wall at the top, middle or low level of a bin.
During normal operation (no material present) a synchronous motor rotates the paddle at RPM. When this paddle rotation is impeded by material, surrounding the paddle, motor will stall and cause the Micro-switch to change state (indicating an alarm or control).
Used or absense within bins, hoppers, silos and other vessels containing powder and bulk solids. The SE series compact rotary paddle unit is economical and available in a variety of configurations, including Standard, High Temp and Reinforced Shaft Extended versions to handle a wide variety of applications broadly across many industries.

FEATURES

- It is completely sealed, thus can be used outdoors.
- Special oil seal design that can prevent dust infiltration along the shaft
- Stable and reliable torsion with adjustable torque It is compact, handy and easy to install.
- When the blades carry a heavy load, the motor's rotating mechanism automatically trips to protect it from damage.
- It can be easily inspected and repaired without totally dismantling the switch from the tank.
- SE380 series has a small torque, which is used in small silo/bins to detect material with smaller specific gravity.

SPECIFICATIONS

Power supply	(A)110Va, (B)220Vac, (C) 240Vac；(D) 24Vac, (E) 24Vdc
Operating temperature	20℃~70℃（Max. 200℃）
Power consumption	3W, 11W (DC 24V)
Contact capacity	SPDT 5A/250Vac (Std) or 3A/250Vac
Connection	1"PF, JIS 2-1/2"x5 Kg/cm^2 (others can be customized)
Protection rating/ material of housing	IP65 aluminum alloy
Conduit	1/2"PF
Explosion -proof certificate	PTB ATEX, NEPSI (optional)

* Please refer to completed specifications in single catalogue for this product

SCX Tuning Fork Level Switch

The tuning fork level switch can be widely applied to detect the min and the max. Leve in tanks, silos and hoppers filled with materials of different densities and state.
The SC series can be used to detect the presence and absence of power, liquids and slurries over a very wide range of material densities.
The SC series is available in compact and standard types of packages and enclosures, can operate from AC/DC power sources or be provided with an universal AC/DC power suppy.
Explosion-proof rated versions, standard and extended lengths are also available.

FEATURES

- Wide voltage supply range 19~253 Vac/Vdc, 50/60Hz
- High vibration force suitable for power & solid applications
- Suitable for most powder form material (10g ~ 50g)
- DPDT Relay / PNP & NPN output
- High/Low failure safe modes
- Operate Temperature 280°C
- Fail safe
- Withstand tough lateral loads and static electricity
- Sludge level detection in waste water

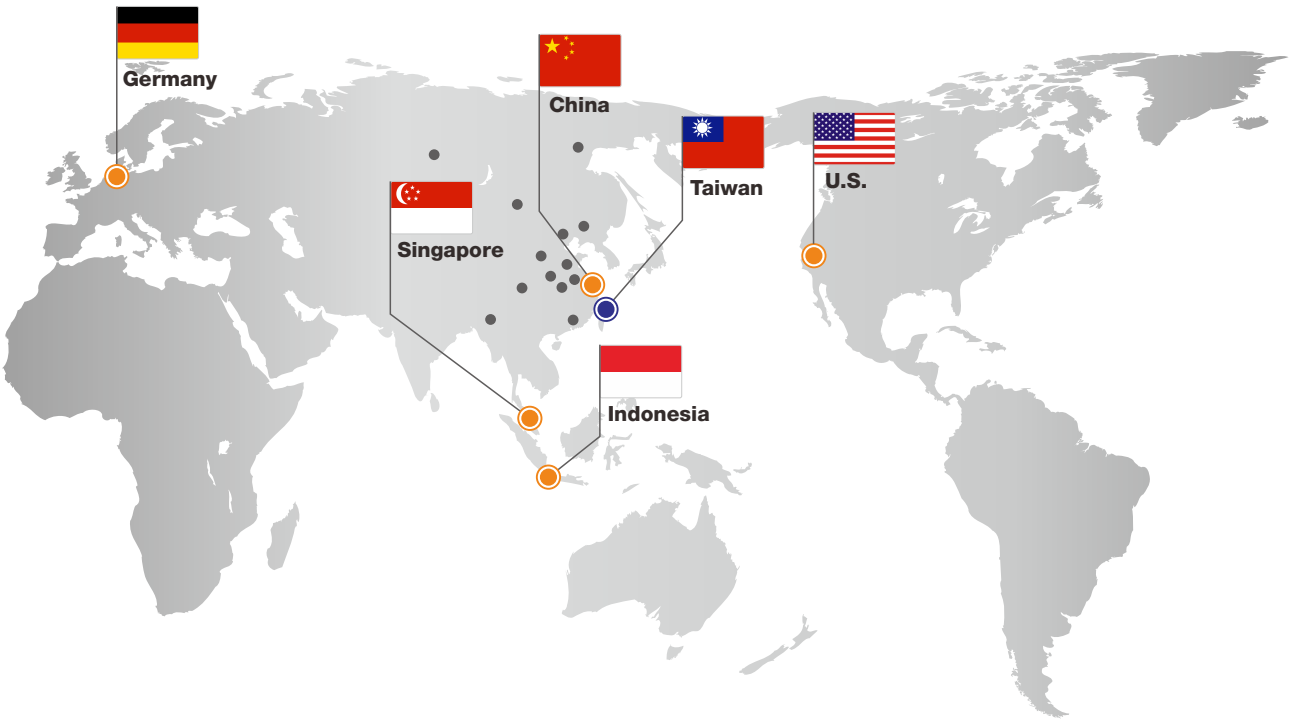
※ It shall combine with the safety barrier to meet the Ex ia and to form the intrinsically safe system.

SPECIFICATIONS

Power	19~253 Vac/Vdc, 50/60Hz
Connection	1-1/2"PT (other types are optional)
Power consumption	Max. 1.5W
Separation voltage	3.7 kV
Overvoltage protection	Over voltage category II
Ambient temp.	-40~80°C
Operating temp.	-40~280°C
Bulk density	10 g/l or 50 g/l
Measuring frequency	Approx.140Hz
Max. load current	(PNP & NPN)Max. 350mA
Operating pressure	25 Bar
Output signal	DPDT Relay / PNP & NPN
IP protection	IP67 (Aluminum housing)
Ex-proof cert.	NEPSI, IECEx

* Please refer to the detailed spec. in individual brochure

Global Network



Head Quarter

Taiwan
FineTek Co., Ltd. - Taipei Head Quarter
No.16, Tzuchiang St., Tucheng Industrial Park
New Taipei City 236, Taiwan
TEL: 886-2-2269-6789
FAX: 886-2-2268-6682
EMAIL: info@fine-tek.com

North America

California, U.S.
Aplus Finetek Sensor Inc. - US Office
355 S. Lemon Ave, Suite D
Walnut, CA 91789
TEL: 1 909 598 2488
FAX: 1 909 598 3188
EMAIL: info@aplusfine.com

Europe

Germany
FineTek GmbH - Germany Office
Bei den Kämpen 26
21220 Seevetal-Ramelsloh, Germany
TEL: +49-(0)4185-8083-12
FAX: +49-(0)4185-8083-80
EMAIL: info@fine-tek.de

Mütec Instruments GmbH - Germany Office
Bei den Kämpen 26
21220 Seevetal-Ramelsloh, Germany
TEL: +49-(0)4185-8083-0
FAX: +49-(0)4185-8083-80
EMAIL: muetec@muetec.de

Asia

China
Fine automation Co., Ltd. - Shanghai Factory
No.451 DuHui Rd, MinHang District, Shanghai,
China 201109
TEL: 86-21-6490-7260
EMAIL: info.sh@fine-tek.com

Singapore
FineTek Pte Ltd. - Singapore Office
37 Kaki Bukit Place, Level 4 Singapore 416215
TEL: 65-6452-6340
EMAIL: info.sg@fine-tek.com

Indonesia
PT. FineTek Automation Indonesia - Indonesia Office
PERGUDANGAN TUNAS BITUNG
JL. Raya Serang KM. 13,8, Blok C3 No. 12&15, Bitung Cikupa,
Tangerang 15710
TEL: 62 (021)-2958-1688
EMAIL: info.id@fine-tek.com

FineTek

Distributor:

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