

PRODUCTS GUIDE

Instrumentation Solutions for Cement Industry



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Solid / Liquid Level Measurement for Field Application
Pneumatic Vibrator/Air Hammer
Temperature Controller/ Counter /Digital Panel Meter



Your BEST Partner



Introduction

The cement industry which is part of the manufacturing sector has a relatively mature and stable development of technology. Its main production process involves mixing certain proportions of materials such as raw limestone, clay, silica and iron slag in a grinding mill and aggregating them into rawmix which is then transformed into clinker heated at high temperature inside a cement kiln. Gypsum added and ground into fine powder produce normal cement.

FineTek is a professional provider of level instruments for process automation and has more than 30 years of experience. We have strong R & D group and precise processing management with ISO9001 approval. We keep developing and supplying quality products to meet different market demands.

To meet food/sanitary industry requirement, our technology never stop. FineTek continue to develop and research new improve technology from tradition type to high end type. In order to improve, strengthen solution for food, beverage, pharmaceutical and biotechnology industry. We apply our experience to help our customers increase production efficiency, reduce labor hours, and minimize product loss. Our products also meet the PTB and ATEX standards.

Material level

Material level monitoring plays an important role in the cement industry. Barrels such as raw material barrels/clinker barrels and finished product barrels for raw materials/limestone storage silos/mineral slag warehouses require material level control and monitoring.

Others such as dust-precipitating systems and water treatment equipment use related industrial control sensors to carry out industrial automation. FineTek provides various material level detection sensors as well as a diverse range of product designs., No matter from on/off switch control to continuous signal output for inventory management , there are suitable products available.



Electromechanical Level Measuring System

- It is commonly used in large raw material warehouses and raw coal silos.
- It can monitor accurately about the situation of material's feeding and consumption as the management for material level in silo as working with control system.



Capacitance Level Switch

- In a grate cooler - burning system/heat recovery device, the temperature of the clinker inside the kiln can reach 500-700°C, with our super-high temperature material level switch type, can fit the installation requirement and is also the best solution.



Rotary Paddle Level Switch

- The product is used in raw material/clinker silos and dust-precipitating systems .
- The rotary paddle level switch uses a transmission shaft connected to clutch. The motor operates normally when it does not touch the material. It stops rotating when the paddle touches the material. The mechanism gives a contact signal to measure the level of the material.



RF-Capacitance/Admittance Level Switch

- It is used in raw material/clinker and slag warehouses. The product is designed with a switchable FSL-FSH protection function, adjustable time delay function and sensitivity adjustment. It comes in different types and can be used at high temperature, for mixing or in narrow spaces.



Radar Level Sensor

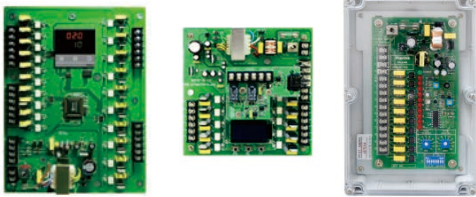
- It is commonly used in large raw material/clinker and finished product warehouses. It is a non-contact radar level sensor with simple installation and easy maintenance. It can be used at high temperatures and in high pressured tanks as well as measuring highly corrosive materials. It is extremely precise and widely used.



Dust collection valve & Conveyor safety switch

Programmable Sequence Controller

- In a dust-collecting equipment, the AE circuit board is used for opening pilot solenoid valves and controlling the diaphragm valves when blowing and collecting dust.
- The dust removal system is used for collecting dust and impurities from the air, thus reducing air pollution.



Diaphragm Valve for Dust Collector

- It is used in bag filter of grinding equipment for collecting dust.
- The diaphragm valve is structurally designed to allow rapid airflow from the diaphragm valve to the opened cotton filter bag. Further to shake off residual dust and prevents the dust exposed in the air and causing air pollution.



Conveyor Safety Switch

- In case of emergencies relating to the conveyor equipment, pulling a steel wire rope which is along the convey on site, steel wire will activate SRS pull cord switch to shut down the power of equipments.
- SRT is used for detecting torsion in the conveyor belt and deviation from the chassis centerline due to overloading.



Level

Magnetic Float Level Switch

- It is used for on-site water treatment equipment systems and humidifying towers.
- The magnetic float level switch uses a magnet inside the float to activate the reed switch inside the stem to occur an on/ off switching action for controlling liquid level.



Ultrasonic Liquid Level Transmitter

- It is used for on-site water treatment systems. reflected waves return to the sensor head when ultrasonic waves reach the material's surface. The reflected wave is converted into electrical signals and sent to an ultrasonic controller. The reflection transfer time of the sound waves is calculated and converted to material level or distance.

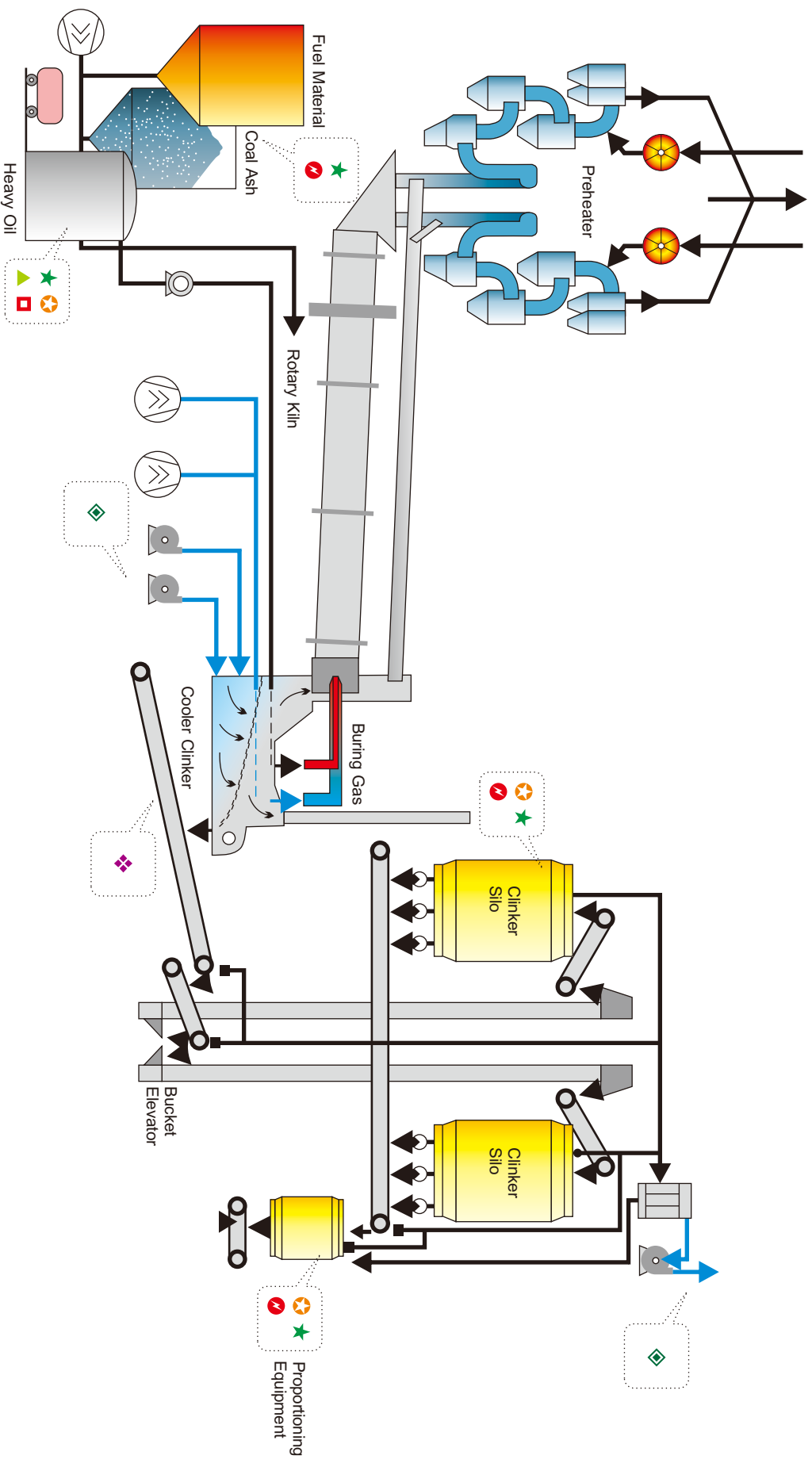


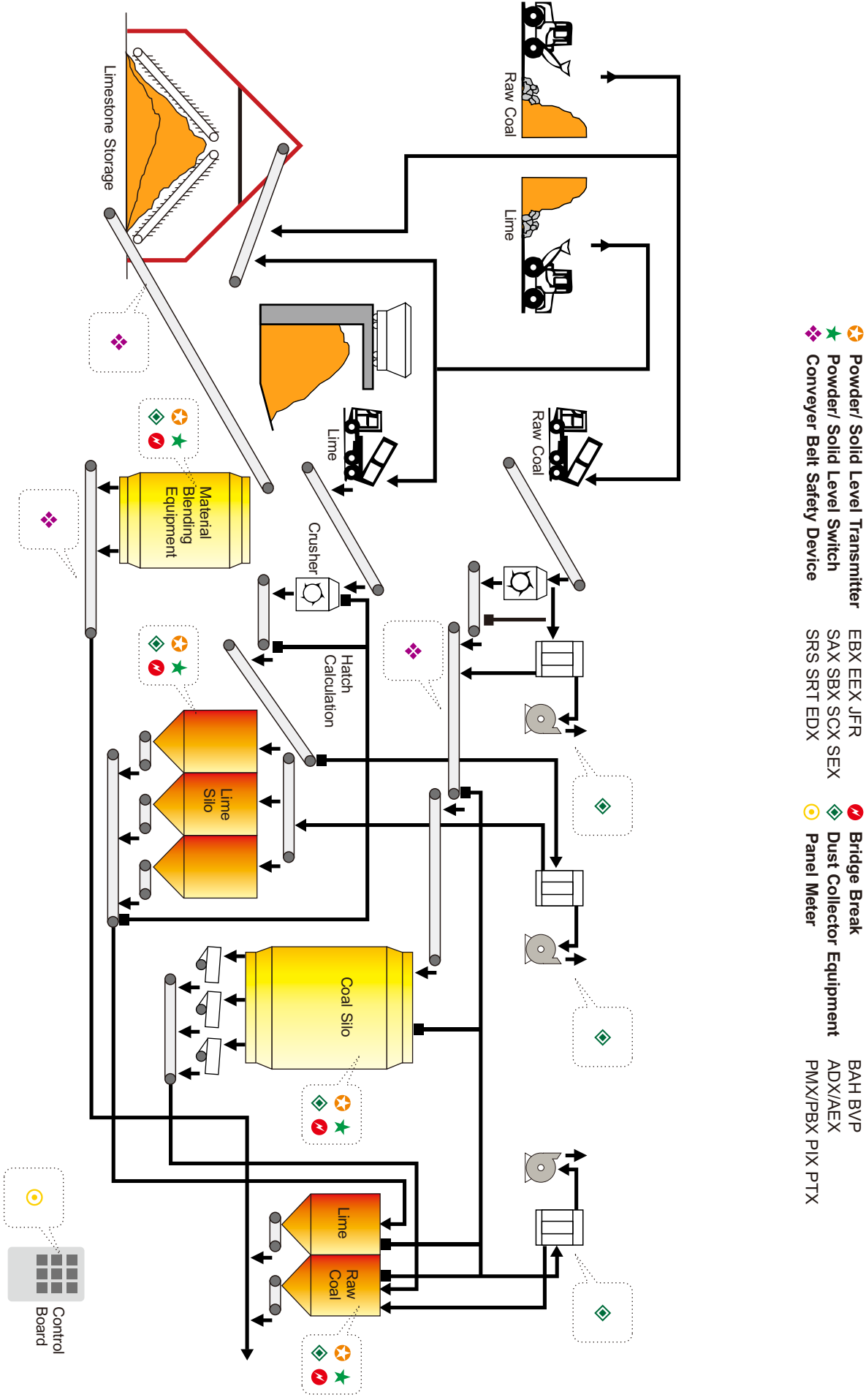
Cable Float Level Switch

- Apply to the natural water, wastewater, unknown liquids and well reservoirs. Contact capacity up to 10A/250Vac. You can also do multi-level control float material available with plastic and stainless steel micro switch, reed switch and mercury switch available simple installation and durable.



Cement plant process flow drawing (phase 2)





EEX Electromechanical Level Measuring System

OPERATING PRINCIPLE

The Electro-Mechanical Level Measuring System consists of plumb, cable wire, measuring pulley, position sensor, and control board to measure the material level. It sense the weight status and count the cable wire length from the device to the level of material. The EE series equips with robust position sensor to calculate the numbers of rotating circles of pulley which can be operated in harsh environment.



SPECIFICATIONS

Power supply	88~264 Vac 50/60Hz
Analog output	4~20mA \pm 1%
Accuracy	Transistor output NPN/PNP (10mm/pulse) Relay output 3A/250Vac (100mm/pulse)
Operating temp.	-35°C~80°C(Max. 105°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.

APPLICABLE PROCESS

Raw material feeding warehouse, pre-mixing storage, finished product warehouse

JFR Radar level sensor

OPERATING PRINCIPLE

FMCW radar (JFR): frequency-modulated continuous waves use high frequency (GHz level) to send electromagnetic waves to measured objects and reflect them to the receiver. When the transmitted wave is reflected by a measured object and received by the antenna, the transmitted wave and received wave would produce a difference in frequency. This could further calculate the distance between the transmitter and the receiver. The application can measure the capacity of the material in the tank.

SPECIFICATIONS

Measuring range	40-70M
Precision	± 3mm (optimal)
Digital communication	RS485 (isolation type)
Ambient temperature	-40°C~85°C
Operating temperature	-40°C~200°C
Operating pressure	0-40 Bar
Frequency	K Band
Analog output	4-20mA/HART
Protection rating	IP67
Min. dielectric constant	1.5
Power supply	9.5-30 Vdc
Display	5-digit backlight LCM
Housing material	Aluminum alloy material
Antenna type	High gain horn (100D/140D)
Antenna material	SUS 304/316
Measuring blind range	Flange face is 500mm from the starting point

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

FEATURES

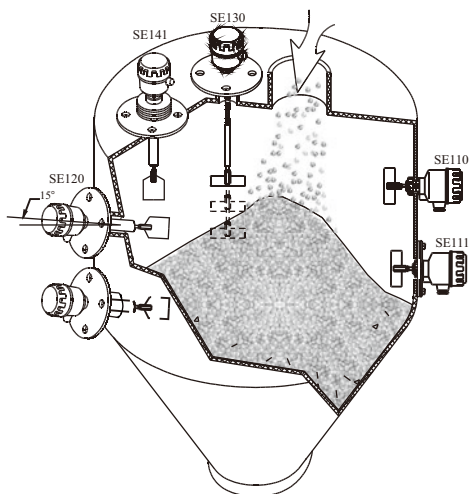
- Non-contact measurement
It can measure corrosion, toxic liquid, hydrocarbon and mud.
- It is not affected by change in liquid/material's specific gravity, temperature, viscosity, foam and dust.
- 5-digit backlight LCM display
- Echo graphic display function can display echo signal in a tank and can be treated as background noise.
- Selection of unit (m, cm, mm, inch, ft, %, mA)
- Can indicate measuring distance, material level, percentage, current 4-20mA
- Language options in display interface: traditional Chinese, simplified Chinese, English, 2-line/4-line output
- Light isolation RS-485 (ModBus) communication with strong anti-interference capability for remote monitoring
- It has Level CE anti-interference capability (EF 2000V, above B class).
- It has 4mA output and 20mA correction current.
- It can use our FAS software to set the functional isolation circuit frame with strong anti-interference capability.



SEX Rotary paddle level switch

OPERATING PRINCIPLE

The rotary paddle level switch uses a transmission shaft connected to clutch. The motor operates normally when it does not touch the material. It stops rotating when the paddle touches the material. The mechanism gives a contact signal to measure the level of the material.



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.

APPLICABLE PROCESS

Raw material feeding warehouse, premixing storage, finished production warehouse

SPECIFICATIONS

Power supply	(A)110Va, (B)220Vac, (C) 240Vac : (D) 24Vac, (E) 24Vdc
Operating temperature	20°C~70°C (Max. 200°C)
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



SAX Capacitance level switch

OPERATING PRINCIPLE

It uses the measured object (liquid or solid materials) as medium and also uses the sensing rod to detect capacitance between the sensing rod and the vessel wall (ground electrode). When the sensing rod is covered by material, capacitance increases. When the capacitance reaches the value set by the internal circuit of the switch, the circuit generates high frequency resonance. It detects resonance signal and converts it to a switch action.



SPECIFICATIONS

Power supply	110/220Vac $\pm 10\%$ or 19~24Vdc
Contact rating	SPDT 5A/250Vac/30Vdc, NPN crystal output
Probe material	SUS304/316
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
Certificate-Intrinsically	Safe Explosion Proof (optional)

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

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

APPLICABLE PROCESS

Raw material feeding warehouse, premixing storage, finished production warehouse

SBX RF-Capacitance/Admittance level switch

OPERATING PRINCIPLE

When medium contacts with measuring electrode, the admittance between measuring electrode and ground electrode will be increased, by the variation of admittance, medium level can be determined. Between the measuring and ground electrodes, the signal wave of shielding electrode is exactly the same with the wave of measuring electrode, but both signal waves are completely isolated. Thus, it can prevent the variation of admittance of probe and GND which was caused when medium attaches to the electrode. This can ensure the level switch only sense the admittance between measuring electrode and tank wall which can eliminate the false alarm caused by medium attached to the probe.

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°C (450°C 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°C/550°C
Delay Time Setting	0-30s
Fail Safe Alarm	Low or high (switchable)
Cable gland	1/2"NPTx2
Operating pressure	ATM~ 20kg/cm ²

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



AEX Programmable sequential controller

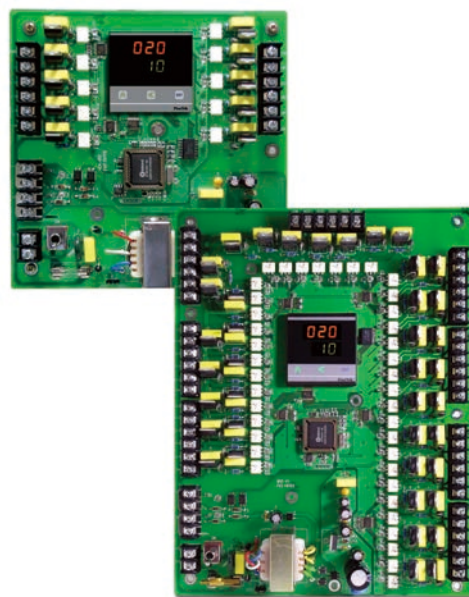
OPERATING PRINCIPLE

The programmable sequential controller is designed especially for use with pneumatic dust collector systems. It is used to control the solenoid valves. The LED display board on the controller indicates the present spray time and position. The spray interval and spray time are both adjustable by the control circuit / logic composed of semi-conductor components. The controller has independent “on” and “off” modes. First, the controller will be automatically shut down and resume to the start point when the AC power supply is turned off or reconnected. Second, it can be controlled by remote control (R.C.A).

The programmable dust collector controller is designed using a microprocessor. It is used for controlling solenoid valves of pneumatic dust collector systems. The controller has 2 sets of 7-section digital displays. One set indicates the position of the next cleaning action while the other one indicates the remaining time before the next cleaning action. The spray time, spray interval and number of sequence are adjustable and it's with the function to set cycle cleaning time after shut down. The user can adjust the settings using the operating button found on the panel. It's suitable for various application and user friendly.

FEATURES

- Digital display, user friendly
- Microprocessor control ensures accuracy in operation
- Remote control function available
- With cycle cleaning function after shut down.
- After system is shut down, it's allowed to continue cleaning cycle which prevents the bag filter being blocked by the remaining dust clinging on it.
- Water & dust proof box is available for purchase to prolong life time of the controller
- Various options in selecting number of sequence: controls 1-10/1-20/1-40 points



SPECIFICATIONS

Power supply	110/220Vac, ±20% 50Hz/60Hz
Spray interval adjustable range	1-999s
Spray time adjustable range	10ms-9.99s
Fuse	3A
Number of sequence	1~10/1~20
Operating temperature	0~70°C
Contact capacity	200VA
Display	2 sets of digital display
Input	3 buttons
Output	Thyristor
Cleaning cycle	0~99 times
Size	AE110A : 160x160mm AE120A : 180x240mm

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

BRD Diaphragm valve for dust collectors

OPERATING PRINCIPLE

The diaphragm valves are used specifically in the dust collector system. The valve consists of 2 air chambers divided by a piece of diaphragm. The 2 chambers are connected through an air passage (air passage's diameter is smaller than the orifice of the point valve). When the orifice opens, the air in the upper chamber is exhausted much faster than the speed of air that enters through the air passage. The air pressure of the upper chamber drops significantly, the higher pressure of the lower chamber pushes the diaphragm up and opens a bigger passage for air to enter into the bottom chamber. This sudden burst of air is used to inflate the fabric filter so as to shake off all the dust clinging on the bag filter. When the orifice closes, the pressure in both chambers equalizes and the diaphragm returns to its original position via the force of the coiled spring.



SPECIFICATIONS

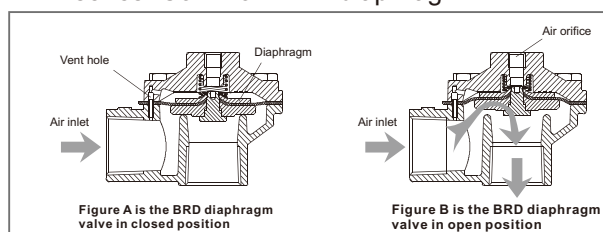
Power supply	24Vdc \pm 10%, 110/220Vac, \pm 10% 50Hz/60Hz With optional DIN connector or lead wire version available
Suitable medium	Air
Material	Aluminum
Diaphragm material	Engineering plastic or NBR
Operating temperature	-20~85°C
Ambient temperature	-20~60°C

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

FEATURES

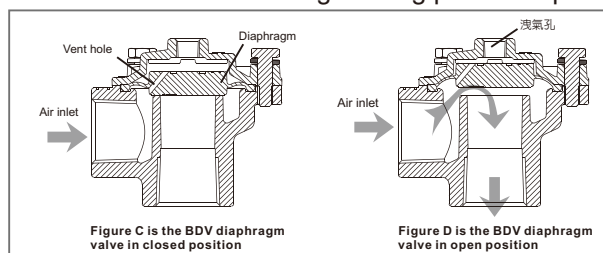
- Quick response, large flow volume, effective cleaning performance
- Low air consumption
- Compatible with programmable sequential controller
- Easy adjustment in spray time and spray interval.

BRD series Common NBR diaphragm



- Size range: 3/4", 1" 1-1/2" (single diaphragm)
1-1/2", 2", 2-1/2", 3" (dual diaphragm)
- Diaphragm vales with female thread (remote type, integrated type)
- Diaphragm valves with quick fittings (remote type, integrated type)

BDV series Innovative engineering plastic diaphragm



- Size range: 3/4", 1" 1-1/2" (single diaphragm)
- Diaphragm vales with female thread (remote type, integrated type)
- Diaphragm valves with quick fittings (remote type, integrated type)

SRT Conveyor belt misalignment switch

OPERATING PRINCIPLE

It is used for detecting torsion in the conveyor belt and the belt misalignment from the chassis centerline due to overloading. It can effectively prevent the medium from falling out, equipment failure due to overloading, or human injuries. During operation, misalignment of the conveyor belt may be occurred due to overloading, belt shifting or torsion which the belt presses the roller lever to trigger the micro switch and generate alarm signal. Alarm signal output: The roller lever moves 20 degree vertically. Shut-down signal output: The roller lever moves 35 degree vertically.

FEATURES

- The roller lever can move up to max. 75 degrees bi-directionally. The internal torque spring will be automatically reset.
- Die cast ADC enclosure. Good air tight characteristics. IP67 protection level.
- Alarm signal output: The roller lever moves 20 degree vertically. Shut-down signal output: The roller lever moves 35 degree vertically.
- Trigger point of alarm and shutdown is controlled by precision mechanical design.
- Special action angle is optional by customization.
- It can prevent downtime and product loss caused by failure of the conveyor system, as well as avoiding additional cost in replacing conveyor belt.
- Easy installation, fast performance

SPECIFICATIONS

Contact Rating	15A, 125/250 Vac 5A 125 Vdc SPDTx2
Action force	3.4~5.4N.m (0.35~0.55kgf.m)
Reset mode	Auto
Ambient temperature	-20~60°C
IP Rating	IP67
Enclosure mate	Die cast ADC
Weight	About 2.9kg

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



SRS Safety rope switch for conveying equipment

OPERATING PRINCIPLE

When there is an emergency involving the conveying equipment, the steel rope on-site is pulled to rotate the lever 30° to lock position. The torque spring inside the enclosure helps keeping the precision cam in position. The precision cam prompts the micro-switch to turn off the control circuit. When resetting, the user should manually press down the reset handle to make the torsion spring bounce. After which, the driving handle returns to normal. One micro-switch can be set to give an alarm signal, and the other can be set to give a shutdown signal. Two micro-switches can be added to increase application range.

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

Contact rating	15A, 125/250 Vac, 5A 125 Vdc SPDTx2
Action Force	49±9.8n (5±1kgf.m)
Reset mode	Manual reset
Ambient temperature	-20~60°C
IP rating	IP67
Enclosure material	Die cast ADC
Weight	About 2.9kg

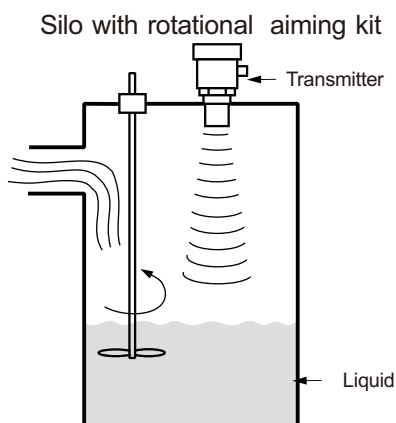
* Please refer to completed specifications in single catalogue for this product

EAX Ultrasonic level transmitter

OPERATING PRINCIPLE

The Ultrasonic Level Transmitter emits a strong sonic wave pulse to the measured to be measured. When the wave reflects off the material surface and back to the sensing probe, the reflected wave will be converted into electrical signal through the sensing probe and sent to the ultrasonic controller. The controller calculates the transmission time of sonic wave reflection and converts to level or distance.

Liquid level measurement of the tank with agitator



FEATURES

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

SPECIFICATIONS

Power supply	7~28Vdc
Measuring range	0~12m
Output	4~20mA loop power
Resolution	1mm
Accuracy	±0.25%F.S
Blind distance	250mm
Operating temp.	-40~60°C
Communication	HART
Display	4-bit LCD display
Process connection	2" NPT / 2" BSPT
Weight	1kg

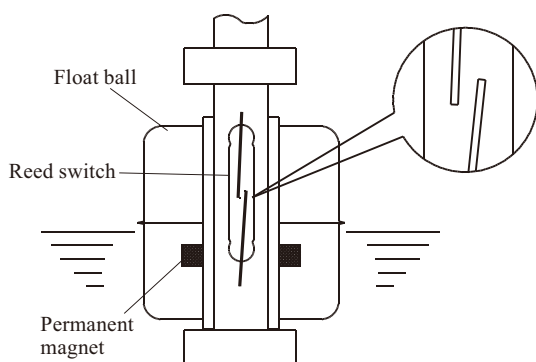
※The specification is subject to the brochure.



FCX/ FDX Magnetic float level switch

OPERATING PRINCIPLE

The single unit or multiple reed switch units are housed tightly in stainless steel or engineering plastic stem, and the permanent magnet is sealed into the middle of the specified float Ball(s). You can mount the float ball to penetrating through the stem, then the liquid buoyancy will deliver the float ball up and down at the specified Position by graduating rings.



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

OPERATING PRINCIPLE

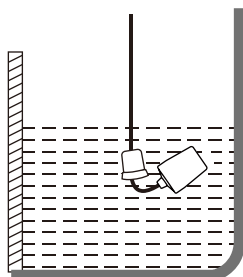
The Cable Float Level Switch is structured by using either micro switches proximity switches or reed switches to control the contact. It's user-friendly design is ideal for level measurement.

The switches will transmit an ON or OFF contact signal output when the float rises and turns upwards. The switch contains a metal ball that can slide as the float position changes.

For different water or solution temperatures, different float materials are available for selection. Plastic and stainless steel switches are the most common.

The cable float level switch can not only be used in clear liquids but also can be used in granular liquids. Long distance detection points and multi-point contacts are also available.

Cable float level switches can be applied in All water management, petrochemical, chemical industries. Other uses include: air-conditioner systems, drainage systems, most tanks or containers with level switch requirements.



FEATURES

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

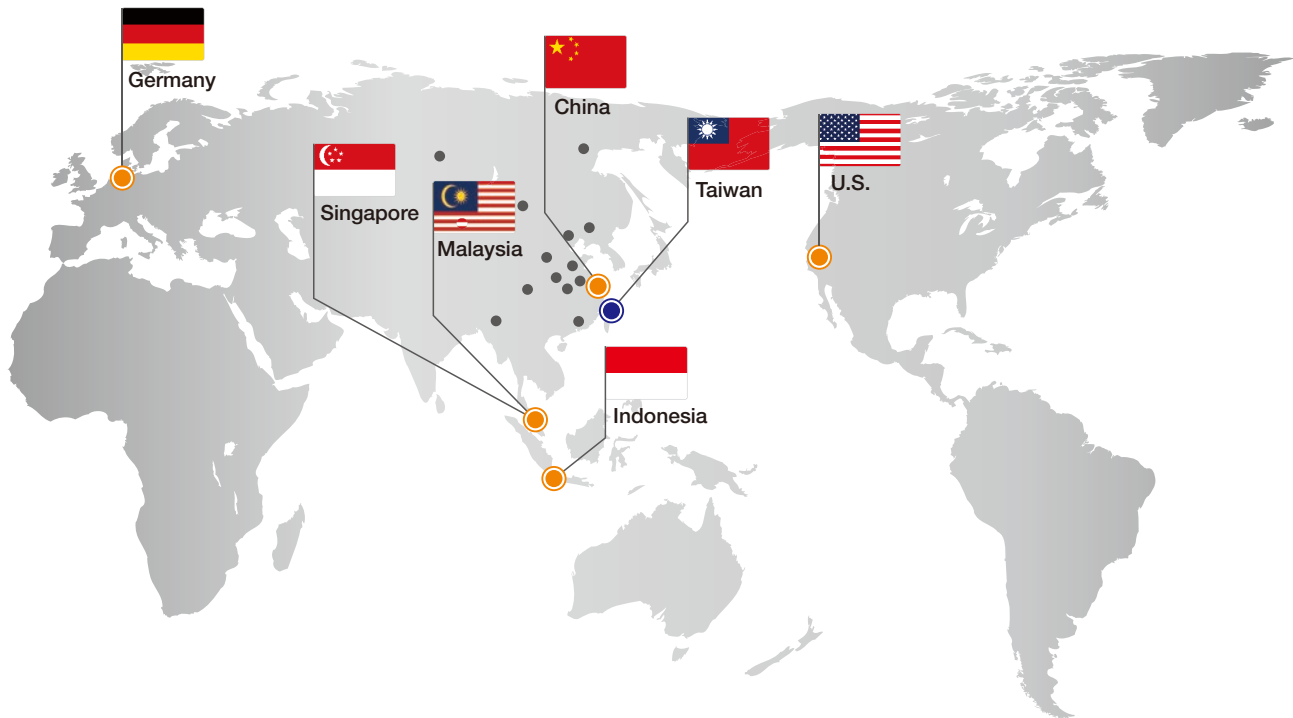


SPECIFICATIONS

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
Actuation angle	28°±2°, 10°±2°
Pressure	2kg/cm ²
Wire voltage	600Vac
Isolation resistance	>100MΩ

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

Global Network



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