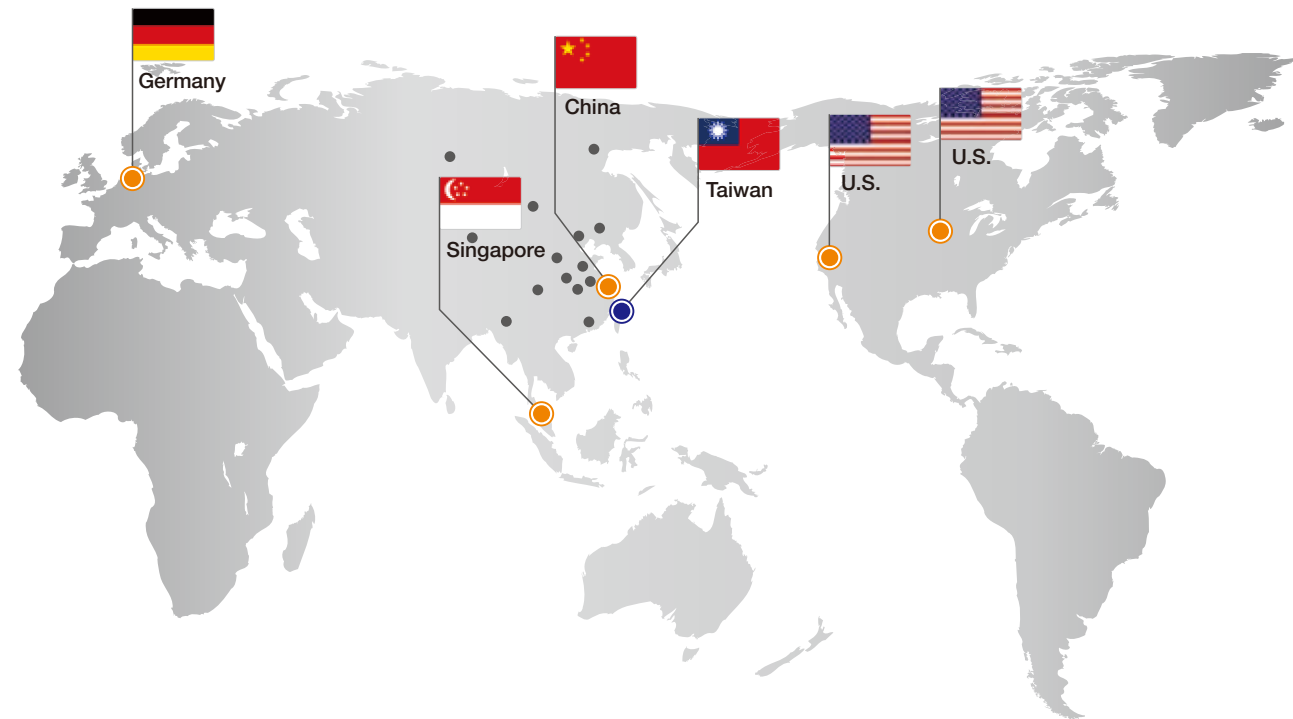


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Distributor:

08-AII09-D0-CP, 07/09/2015

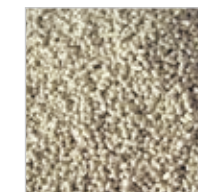


PRODUCTS GUIDE

Total Instrumentation for Feed Milling



www.fine-tek.com



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



Your BEST Partner



The feed manufacturing industry is an important sector of commercial subsistence. With the social and economic transformation of last decade, animal husbandry has transitioned from small, individualist businesses to large, centralized conglomerates. The feed manufacturing industry now includes not only animal husbandry but also aquaculture, poultry feed, pet feed and fish feed.

General feed production processes include material purchasing, weighing, sampling, inspection and storage. Raw materials are required to undergo crushing, screening, extrusion, mixing and cooling processes. In aquaculture, complex processes such as coolant packaging and storage are further required.

FineTek technology specialises in the production of level automation equipment. With the complexity requirements of the feed manufacturing industry, FineTek holistic range of products is able to provide completely and effectively in automated production flow process control.

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.

Your Made-To-Order Solutions



SC Vibrating Probe Level Switch

- Standard Type, Probe Extension Model, Ultra Extension Model, Cable Extension Model, Corrosion Proof & Ex-Proof Type
- Power supply: 20~250Vac/Vdc, 50/60hz, SPDT Relay or SSR MOSFET signal output
- Remote control testing the function of SC
- High/Low failure safe mode
- Suitable for all kind of powders.
- Easy Installation



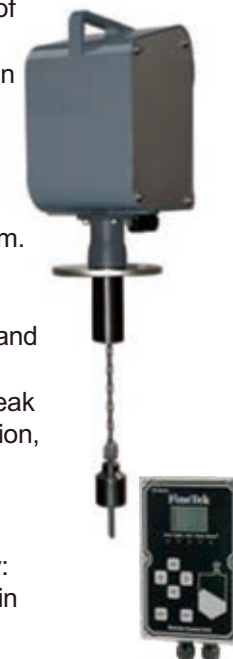
SC Tuning Fork Level Switch

- Power supply: 19~253Vac/Vdc, 50/60Hz
- Sensitivity adjustment for different density of medium. Fine Powder can be detected
- Signal Output: DPDT Relay, PNP & NPN
- High/Low failure safe mode
- Operating Temperature up to 230°C
- One element acts as a transmitter of the signal and the other receives the signal and converts into electrical output.
- Ability to detect failure by itself
- Time delay function available



EE Electromechanical Level Measuring System

- Suitable for different variety of material as powder, pellet, liquid, and also good for open tanks or sealed tank with no inner pressure inside.
- LCD Dot Matrix
- Analog Output 4~20mA dc.
- High level and low level alarm. (3A/250Vac, SPDTx2)
- Four star modes: auto start, manual star, intelligent start and external triggered start
- Various protection: Cable Break Alarm, Plumb Buried Protection, Plumb Buried Alarm
- RS485 MODBUS communication protocol.
- Freeze Prevention Capability: being able to work normally in cold temperature



EST 2 in 1 grain temperature & level monitoring transmitter

- For food, feed and food Industry, it is designed to monitor the temperature of the material inside the warehouse.



SA Capacitance Level Switch

- Standard Model, Hi-Temp Model, Super Hi-Temp Model (800°C), Corrosion-Proof Model, Remote Probe Model, Wire-Probe Model, Plate Model, Anti-Static model, Explosion Proof Type.
- No mechanically moving parts, thus will not affect by friction.
- Power supply option: 110Vac/220Vac, 24Vdc
- Output: Relay or NPN
- Sensitivity adjustable and delay time up 0~6sec.



SE Rotary Paddle Level Switch

- Install top, middle or low level
- Clutch assembly to protect the motor good shaft seal designed
- Operation Temperature up to 200°C
- Variable power supply selectable : 110Vac/220Vac/240Vac/24Vdc/24 Vdc
- PTB ATEX, NEPSI approval
- Various paddle shapes available
- Unique sealing ring design, it can perform good dust protection to avoid the dust permeate into housing body along with the shaft.



MMS Materials Management System

- Material Inventory function, data and real time message alarm
- Easy view all information of each tank in page mode including high/low alarm, material height, ratio of remaining material, material, sensing weight status, material selection, tank measurement, and motor indication etc.



BAH/BVP Air Hammer

- High Strengthened aluminum body. Low frequency vibration is the solution to Bridge-break.
- Operational safety, No external supply require, Fire Proof ,low S.G, high moisture material and material built-up in the tank.
- Sudden activation / deactivation



AE Controller for Dust Collector System

- Spray time range: 10mSec ~ 9.99 Sec
- Interval range: 1Sec~999Sec
- No Switch contact in the circuit, operating life is half eternity
- Power supply: 110/220Vac or 24Vdc
- Number of sequence: 10/20/40 (option)
- Communication protocol: RS485 Modbus



BRD Diaphragm Valve

- Available with 3/4", 1", 1-1/2 ", 2", 2-1/2 ", 3. Material : aluminium, stainless steel
- Remote & Integrated available
- Inner and outer thread type
- Standard or customise connection
- Power Supply, 110Vac,220Vac,24Vdc
- Fast Response, large flow volume, good reverse cleaning affect, less air consumption



BVK /BVR /BVT Pneumatic Vibrator

- Frequency and amplitude of vibration can be adjusted as required
- Fine enclosure protection can be applied in high humidity dust working area
- Sudden activation and deactivation.
- Low price and durable



EB5 RF-Admittance Level Transmitter

- Standard Type, Anti-Corrosion Type, High Temp Type, Wire Probe Temp, Explosion Proof Type.
- Output current : 4~20mA wire Loop Power
- PVDF, FEP or PP coating
- Max. tensile strength of wire (Ø9mm) can up to 3.5tons and 50m in length
- Operating Temperature up to 200°C
- Unaffected by pressure, sound wave temperature
- Dual protection prevents fog from damaging PCB



ED Speed Monitor

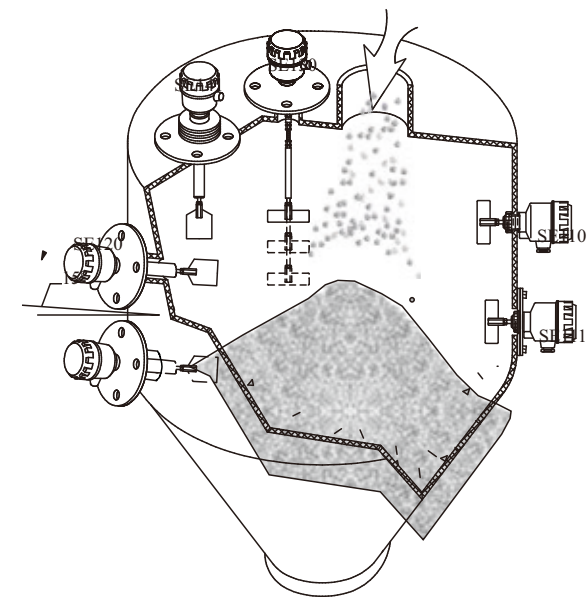
- Principle of photo detector and microprocessor
- Maximum monitoring range : 1 ~ 999 rpm
- 4 ~ 20mA (0~100/200/500/1000rpm)
- Alarm monitoring: Low speed, stop, reverse, blackout and overload
- Start-up delay function
- Alarm delay function can avoid fault alarm which many caused by temporary slow-down or load changed
- Light pulse will not affect by the environmental conditions



SE Rotary Paddle Level Switch

OPERATING PRINCIPLE

The paddle rotation is impeded by material, surrounding the paddle, motor will stall and cause the Micro-Switch to change state. (including an alarm or control)



FEATURES

- Airtight sealing device, outdoor application is available
- High safety dust protection
- The torque force is adjustable
- The performance of torsion is stable and reliable
- If the rotary paddle bears an extra overload the motor will be appeared slide to prevent the inside mechanism damaged
- Easy maintenance
- SE380 design with adjustable torque to fit wide density range

SUITABLE APPLICATION

Raw materials (cereals, grain) feeding silo, ready-mixed storage silo, end product storage silo



SPECIFICATIONS

| | |
|-------------------|------------------------------------------------------------------|
| Power | (A)110Va, (B)220Vac, (C) 240Vac, (D) 24Vac, (E) 24Vdc |
| Operating temp. | 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 (other types are optional) |
| Housing | IP65 aluminum |
| Conduit | 1/2" PF |
| Ex-proof cert. | PTB ATEX, NEPSI (optional) |

* Please refer to the detailed spec. in individual brochure

SA Capacitance Level Switch

OPERATING PRINCIPLE

Capacitance switch relay on electrical capacitance theory (the ability of a medium to store electrical energy). When an electrical has two separated conductive plates, the space between the plates acts as a capacitor and stores the electrical energy.



FEATURES

- As Capacitance Level Switch has no moving parts inside the device, it will not be affected by friction. It is suitable for powder or liquid application easy to install. The customer can choose the types for his requirements.

1. **Standard Type (SA110 & SA111 A/B/C)**
Suitable for general use.
2. **Hi-Temp Type (SA120 & SA128 A/B/C)**
Suitable for high temperature environment.
3. **Anti-Corrosion Type (SA130 & SA132 A/B/C)**
Suitable for corrosive environment.
4. **Remote Probe Type (SA140 A/B/C)**
For use with vibrator equipped with tank.
5. **Wire-Probe Type (SA150 A/B/C)**
Suitable for silo or large-size tank.
6. **Plate-Probe Type (SA160 A/B/C)**
Suitable for granules and at lower position of tank side.
7. **Explosion-Proof Type (SA270 ~ SA279)**
Ex dia II C T4~T6, DIP A21 T_A,T3~T6
8. **Explosion-Proof Type (SA370 ~ SA378)**
Ex ia IIC T3~T6
Equipped with SA-75U signal conditioner can be used in hazardous areas.
9. **Anti-Static Type (SA180 & SA181 A/B/C)**
Suitable for electrostatic environment
(It won't be damaged by the electrostatic discharge)

SUITABLE APPLICATION

Raw materials (cereals, grain) feeding silo, ready-mixed storage silo, end product storage silo

SPECIFICATIONS

| | |
|------------------------|-----------------------------------------------------------------|
| Power | 110/220Vac ±10% or 19~24Vdc |
| Output rating | SPDT 5A/250Vac/30Vdc, NPN transistor output |
| Sensing probe material | SUS304/316, PP, PVDF coating |
| Connection | 1"PT JIS 1-1/2"x5 Kg/cm ² (other types are optional) |
| Operating temp. | -20~80°C(Max. 800°C) |
| Insulated material | UPE, PEEK, Ceramic, |
| Housing | IP65 aluminum |
| Sensitivity range | 10pF (Std) |
| Delay time setting | 0~6 sec |
| Ex-proof cert. | Ex dia IIC (optional) |

* Please refer to the detailed spec. in individual brochure

SC Vibrating Probe Level Switch

OPERATING PRINCIPLE

The operating principle is based on the changes of vibrating frequency of the vibrating Probe when it comes into contact with a liquid or solid material. The Vibrating probe contact piezoelectric crystals built into the vibration tube that produce vibrations/resonations at specific frequencies. One element acts as a transmitter of the signal and the other receives the signal and converts it to electrical output.

FEATURES

- Voltage supply range 20 ~ 250, 50/60Hz Vac/Vdc
- SPDT Relay output, SSR MOSFET output
- No calibration, easy use, sturdy and durable
- Round design prevents medium build up on the probe
- Maximum process safety
- Fine power can be detected
- Sensitivity adjustable for different density medium
- High vibrating force

SUITABLE APPLICATION

Raw materials (cereals, grain) feeding silo, ready-mixed storage silo, end product storage silo

SPECIFICATIONS

| | |
|------------------------------|------------------------------------|
| Power | 20~250, 50/60Hz Vac/Vdc |
| Output contact | SPDT 5A/250Vac, SSR(MOSFET) 400mA |
| Probe material | SUS304/316, PVDF coating |
| Connection | 1"PT (other types are optional) |
| Operating temp. | -40~80°C |
| Max. vertical load on probe | Max. 177 in.Lbs (20Nm) |
| Operating pressure | Vacuum ~150PSI (10Bar) |
| Housing | IP65 aluminum |
| Vibrating frequency | 395~405 Hz |
| Min. material density sensed | powder: 0.32 g/cm ³ |
| Selectable sensitivity | HI/LO |
| Remote test | YES |
| Ex-proof cert. | PTB ATEX, NEPSI (optional) |

* Please refer to the detailed spec. in individual brochure



SC Tuning Fork Level Switch

OPERATING PRINCIPLE

The Tuning fork contains piezoelectric crystal built into the vibration tube that produces vibrations/resonations at specific frequencies. One elements acts as a transmitter of the signal and the other receives the signal and converts it to electrical output.

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 230°C
- Fail safe
- Withstand tough lateral loads and static electricity
- Sludge level detection in waste water

SUITABLE APPLICATION

Raw materials (cereals, grain) feeding silo, ready-mixed storage silo, end product storage silo

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. | -40~230°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 hosuing) |
| Ex-proof cert. | NEPSI (pending) |

* Please refer to the detailed spec. in individual brochure



EE 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 | 88~264 Vac 50/60Hz |
| Analog output | 4~20mA $\pm 1^\circ\text{C}$ |
| Operating temp. | Transistor output NPN/ PNP (10mm/ pulse), Relay output 3A/ 250Vac (100mm/ pulse) |
| Operating temp. | -35°C~80°C(Max. 105°C) |
| Measuring range | 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 (HI/ LO/ Break/ Buried alarm) |
| Operatin tem | IP66 |
| Alarm function | Cable Break, Plumb Buried, Material fill up protection |
| Operation mode | Smart, Auto, Manual, External |

* Please refer to the detailed spec. in individual brochure

FEATURES

- Measurement immune from the interference of environment such as sound waves, dust, capacitance, or temperature change.
- User-friendly in touch buttons with microprocessor-based calculation design.
- High level and low level alarm. (3A/250Vac, SPDTx2)
- EE400 is equipped with LCM 128x64 Dots Graphic.
- Analog output: 4-20mA dc.
- Pulse output:
 - Transistor output NPN/PNP(10mm/pulse)
 - Relay output 3A/250Vac(100mm/pulse)
- Cable Break Alarm: System will detect cable broken during measuring.
- Plumb Buried Protection: System can sense and stop the measurement as the plumb hit by materials and retrieve the wire to prevent the plumb being buried.
- Plumb Buried Alarm: System will detect plumb buried by the medium.
- Four Start Modes: auto start, manual start, intelligent start, and external triggered start.
- Intelligent Start: Measuring interval is inverse proportional to medium level.
- Auto Return Setup: Prevent sensing weight from buried or sliding into the tank pivot and avoid damage facility equipment while tank is empty.
- Material Fill-Up Protection: Reduce the possibility of plumb being buried.
- Measuring range of 30m (Standard), Max.45m is available for EE300.
- RS485 MODBUS communication protocol.
- Various selections of weights for different requirements.
- Freeze Prevention Capability: being able to work normally in cold temperature.

SUITABLE APPLICATION

Raw materials (cereals, grain) feeding silo, ready-mixed storage silo, end product storage silo

EB5 RF Admittance Level Transmitter

OPERATING PRINCIPLE

RF Admittance Level Transmitter is surrounding by the air, little capacitance (C_A) is measured by the equivalent capacitor, the capacitance increase gradually as computing media, the max capacitance (C_B) will be measured when the tank is full. The difference (dc) between C_A and C_B is proportional to the level.

FEATURES

- 2wires Loop power
- Low consumption of power (20mA)
- High accuracy of linearity ($< \pm 1\%$ FS or $\pm 0.5\text{pF}$)
- Temperature compensation, low temperature effect ($\pm 0.2\%$ FS/ $^\circ\text{C}$ or $0.1\text{pF}/^\circ\text{C}$)
- Easy calibration (any 2 point for calibration)
- No blind distance, ideal for different tanks
- Suitable for high temperature, high pressure and corrosive environment
- LCD Local display

SUITABLE APPLICATION

Raw materials (cereals, grain) feeding silo, ready-mixed storage silo, end product storage silo

SPECIFICATIONS

| | |
|--------------------|----------------------------------------------------------------------|
| Power | 18~30Vdc |
| Analog output | 4~20mA (two wires) |
| Digital output | HART (optional) |
| Probe material | US304/316, PFA coating |
| Connection | 1"PT, JIS 1"x5 Kg/cm ² (other types are optional) |
| Operating temp. | -40~85°C (max 200°C) |
| Measuring range | 20~2000pF |
| Accuracy | Aluminum |
| Temp. effect | $< \pm 0.2\%$ FS/ $^\circ\text{C}$ or $0.1\text{pF}/^\circ\text{C}$ |
| Operating pressure | max. 40Kg/cm ² (coating type: max. 32kg/cm ²) |
| Housing | IP65 aluminum |
| Ex-proof cert. | PTB ATEX, (optional) |

* Please refer to the detailed spec. in individual brochure



BAH / BVP Air Hammer

BAH Series Single Impacting Type

The single impact model of Air Hammer impacts on one specific target spot on limited target.

Air Hammer impact will not separate water out of humid mixtures.

It is often applied onto pipe or elbow clean and tank filled with humidity or small S.G. Material.

| Model No. | A | B | C | D | E | F | Useful pressure | Air consumption | Impact | Weight |
|-----------|----|-----|-----|-----|---------|---------|------------------------|-----------------|-------------|--------|
| BAH-30 | 9 | 60 | 80 | 138 | 1/4" PT | 1/8" PT | 3~6 kg/cm ² | 0.028ℓ /e.t. | 1.0 kg.m/s | 1.1kg |
| BAH-40 | 11 | 75 | 100 | 166 | 1/4" PT | 1/8" PT | 3~6 kg/cm ² | 0.082ℓ /e.t. | 2.8 kg.m/s | 1.8kg |
| BAH-60 | 15 | 105 | 140 | 208 | 1/4" PT | 1/8" PT | 4~7 kg/cm ² | 0.228ℓ /e.t. | 7.4 kg.m/s | 4.0kg |
| BAH-80 | 19 | 140 | 172 | 269 | 3/8" PT | 1/4" PT | 4~7 kg/cm ² | 0.455ℓ /e.t. | 12.5 kg.m/s | 8.4kg |

※ ℓ /e.t. means the air consumption (ℓ) per one shot.



BVP Series Piston Vibrator

BVPS-Series Piston Vibrator (Impact Model)

Direct impact of piston impact type can get rid of rust and attachment inside the pipes, and low S.G., high moisture material, and material built up the tank.

BVP-C Series Piston Vibrator (Air Cushioned Model)

Air cushioned types, low noise character. It is good solution to shake off material attach to the tank surface. It can also design to apply on vibrating separator and conveyer.

| Model No. | Frequency (V.P.M.) | | | Force (N) | | | Air consumption (l / min) | weight |
|-----------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|--------------------------------|--------|
| | 2kg/cm ² | 4kg/cm ² | 6kg/cm ² | 2kg/cm ² | 4kg/cm ² | 6kg/cm ² | | |
| BVP-30C | 1765 | 2308 | 2857 | 195 | 380 | 560 | 230 | 0.9 kg |
| BVP-40C | 1333 | 1677 | 1875 | 275 | 531 | 715 | 249 | 1.9 kg |
| BVP-60C | 1000 | 1200 | 1340 | 404 | 780 | 1030 | 269 | 4.5 kg |
| BVP-30S | 1900 | 2800 | 3500 | 3600 | 5400 | 6200 | 250 | 1.0 kg |
| BVP-40S | 1700 | 2400 | 3000 | 6450 | 8750 | 9400 | 270 | 2.1 kg |
| BVP-60S | 1200 | 1800 | 1900 | 6900 | 12850 | 13850 | 300 | 4.8 kg |



RA Rectangular Bin Aerator

Low cost, affordable aeration

Industry standard size, 3-3/4" x 7-1/2"

Rugged construction

Fiberglass diffuser, resists clogging

External mounting kit accessory available



BVK /BVR /BVT Pneumatic Vibrator

BVK Series Pneumatic Ball Vibrator

Best choice for bridge-break in thin wall and small tank. This model can be used in vibrating separator, vibrating conveyor, automatic component arrangement, electroplating built-up, protection material packing process, process molding.



| Model No. | Frequency (V.P.M.) | | | Force (N) | | |
|-----------|---------------------|---------------|---------------|---------------|---------------|---------------|
| | 2Bar 29PSI | 4Bar 58PSI | 6Bar 87PSI | 2Bar 29PSI | 4Bar 58PSI | 6Bar 87PSI |
| BVK-10 | 22,500 | 28,000 | 34,000 | 250 | 470 | 710 |
| BVK-13 | 15,000 | 18,500 | 22,500 | 320 | 550 | 870 |
| BVK-16 | 13,000 | 17,000 | 19,500 | 450 | 800 | 1,100 |
| BVK-20 | 10,500 | 14,500 | 16,500 | 720 | 1,220 | 1,720 |
| BVK-25 | 9,200 | 12,200 | 14,000 | 930 | 1,570 | 2,050 |
| BVK-32 | 7,800 | 9,700 | 12,500 | 1,510 | 2,470 | 3,210 |

BVR Series Pneumatic Roller Vibrator

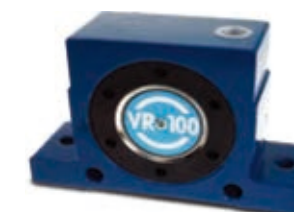
The high vibration frequency can prevent material jam in pipe delivery. It can also be applied in bridge-break, concrete injection operation process.



| Model No. | Frequency (V.P.M.) | | | Force (N) | | |
|-----------|---------------------|---------------|---------------|---------------|---------------|---------------|
| | 2Bar 29PSI | 4Bar 58PSI | 6Bar 87PSI | 2Bar 29PSI | 4Bar 58PSI | 6Bar 87PSI |
| BVR-50 | 25,000 | 35,000 | 36,000 | 1,070 | 2,920 | 4,220 |
| BVR-65 | 19,000 | 21,000 | 26,000 | 2,730 | 4,830 | 6,120 |
| BVR-80 | 15,500 | 18,500 | 19,000 | 3,000 | 6,090 | 7,450 |
| BVR-100 | 11,000 | 14,000 | 16,000 | 3,750 | 6,750 | 8,900 |

BVT Series Pneumatic Turbine Vibrator

Best choice in low noise environment. It is usually installed on vibrating separator, conveyer, automatic arrangement machine, packing machine, filling machine etc.



| Model No. | Frequency (V.P.M.) | | | Force (N) | | |
|-----------|---------------------|---------------|---------------|---------------|---------------|---------------|
| | 2Bar 29PSI | 4Bar 58PSI | 6Bar 87PSI | 2Bar 29PSI | 4Bar 58PSI | 6Bar 87PSI |
| BVT-10 | 27,500 | 35,000 | 37,500 | 840 | 1,390 | 2,400 |
| BVT-13 | 26,000 | 30,000 | 33,000 | 1,400 | 2,440 | 3,730 |
| BVT-16 | 17,000 | 21,500 | 24,000 | 1,220 | 2,090 | 3,160 |
| BVT-20 | 17,000 | 20,000 | 23,000 | 2,170 | 4,040 | 5,520 |
| BVT-25 | 12,000 | 15,500 | 17,000 | 2,120 | 3,510 | 5,070 |
| BVT-32 | 8,000 | 10,000 | 13,000 | 3,290 | 5,360 | 7,149 |

EST 2 in 1 grain temperature & level monitoring transmitter

OPERATING PRINCIPLE

Temperature is crucial to maintain the grain quality in a grain storage system. Whenever grain rots or when there is a pest problem, the temperature in the Silos will rise to indicate there is a problem. In the past, we need to install the temperature sensing unit and a separate level transmitter to retrieve both the temperature data and level information.

EST120 is a combination device which capable of measuring both temperature & level information simultaneously to enhance real time monitoring on the grain.

Built with RS485 communication interface, the device is also able to transmit data to a control center which allow users to monitor both temperature and level changes inside the silo efficiently.

SPECIFICATIONS

| | |
|-------------------------|-------------------------------------------------|
| Power | 9~30Vdc |
| Temp. measurement range | -10~85°C |
| Connection | 1-1/4"PF (other types are optional) |
| measurement range | Max. 30m |
| Sensing elements amount | Max. 30pcs (install one for each 1 M distance) |
| Cable material | φ5.5~11.2mm, PVC coating with steel wire inside |
| Sampling speed | Level measurement: ≤ 1sec |
| Sampling speed | Temp. measurement: ≤ 1sec/node |
| Output | RS485 : Baud rate: 9600~57600 bps |
| Resolution | 0.1°C |
| Accuracy | ±0.5°C |
| Level non-linearity | ±1%FS |
| Tensile strength | 2500Kgf (Standard) /5000Kgf (Optional) |

* Please refer to the detailed spec. in individual brochure

FEATURES

- Only product come with temperature and level transmitter simultaneous
- Strength steel cable design to sustain impact from the medium to prolong product life
- Able to detect mold growth or insect damage, in order to maintain quality of the grain.
- Provide real-time monitoring of temperature for food, feed and other industry to enhance long-term preserve.
- Multi-points temperature measure to help the operator fast response on foods situation
- Prevent the grain rotten or fire cause by high temperature.
- Customized the sensor interval
- Calibration can easy detect at any two points of the materials.
- RS-485 communication interface.



AE Controller For Dust Collector System

OPERATING PRINCIPLE

Programmable Sequence Controller is designed for use with pneumatic dust collector, control the solenoid of the diaphragm valve in order to program the pulse jet sequence of the valves. LED display on the controller board to indicate pulse position and timing.

Both the pulse jet timing and duration of each pulse jet would be adjusted by the logic circuitry. The controller has 2 independent "ON" and "OFF" methods, the 1st is when the AC power supply is turn off, the controller will shut down. When the AC supply is reconnected, the controller will automatically revert to its initial default settings. The 2nd method is to employ the use of the controller's remote contact (R.C.A.) as the controlling signal. Dust programmable controller designed as microprocessor to control. There are two group of 7 segment digital display on the controller. One is used to indicate the location of the next cloth dust action, another group indicate how much before the next set of cleaning pipe.

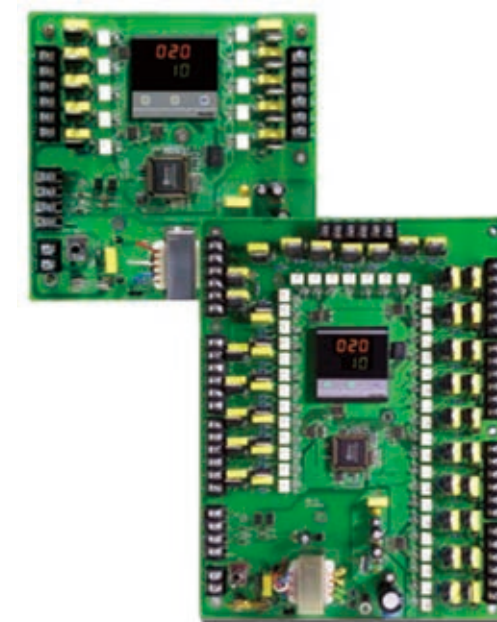
SPECIFICATIONS

| | |
|--------------------------------------------------|----------------------------------------------------------------|
| Power | 110/220Vac, ±20% 50/60Hz |
| Adjustable range for Interval of each spray time | 1s~999s |
| Adjustable range for spray time | 10ms~9.99s |
| Fuse | 3A |
| Number of sequence | 1~10/1~20/1~40 points |
| Operating temp. | 0~70°C |
| Contact capacity | 200VA |
| Display | 2 sets of digital display |
| Input | 3 push buttons |
| Output | Thyristors |
| Cycle washing times after shutdown | 0~99 times |
| Dimensions | AE110A : 160x160mm AE120A : 180x240mm AE140A : 205x265mm |

* Please refer to the detailed spec. in individual brochure

FEATURES

- Digital display, user friendly
- Accuracy and precise operation
- Able to automatically execute the pulse jet cycle even after the system shuts down so as to prevent residue sticking into bag filter.
- Waste-proof and dust-proof enclosure, to extend lifespan of the controller
- A variety of options : You can control 1 ~ 10/1-20/1to40points



BRD Diaphragm Valve

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 pilot 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.

FEATURES

- Fast Response, large flow volume, effective cleaning action on fabric filter
- Low Air consumption
- Compatible with programmable sequential controller
- Ease of adjustment in jet pulse timing and duration



SPECIFICATIONS

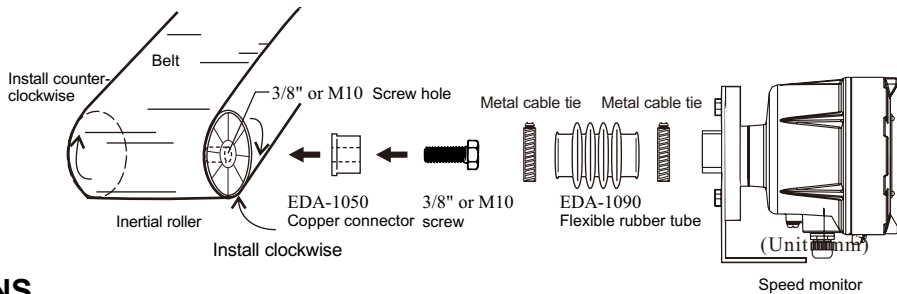
| | |
|--------------------|-----------------------------------------------------------------------------------|
| Power | 24Vdc±10%,110/220Vac, ±20% 50/60Hz DIN Optional for DIN connector or lead wire |
| Suitable fluid | Air |
| Body material | Aluminum |
| Diaphragm material | Engineering plastic or NBR |
| Operating temp. | -20~85°C |
| Ambient temp. | -20~60°C |

* Please refer to the detailed spec. in individual brochure

ED Speed Monitor

OPERATING PRINCIPLE

ED4000(SM4) Speed Monitor is a totally new rotational speed monitoring equipment, it uses the principle of photo detector and microprocessor to accurately calculate a wide range of rotational speed. It detects rang 1~999rpm and the rotational speed display on 7-seg led. There is a contact relay that would be used either for alarm or control purpose during the monitoring process. The alarms set point would be directly set by numerical knobs which is more convenient and more accurate than conventional means. It equipped with analog signal output which utilize various display indications and more precise control. Other features include anti-reversal action to prevent incorrect power supply connection during maintenance process. It is ideal for application such as low speed, stop and overload situation.



SPECIFICATIONS

| | |
|----------------------|----------------------------------------|
| Measuring Range | 0~999 rpm |
| 7-seg led display | 1~999 rpm |
| Alarm Set point | Underspeed, standstill, power failure. |
| Startup Delay | 3~30Sec.Selectable |
| Alarm Contact Rating | 5A/250Vac, 5A/30Vdc |
| Speed Analog Output | 4~20mA (0~100/200/500/1000 rpm) |
| Power Supply | 85~265Vac |
| Power Consumption | 6VA |
| Operating Temp. | -20~70°C |
| Housing | IP65 aluminum |
| Cable Entry | 1/2"NPT* 2 hole |

* Please refer to the detailed spec. in individual brochure

FEATURES

- Maximum monitoring range 1 ~ 999rpm.
- 7-seg LED Display 0~999
- Alarm monitoring: low speed, stop, reverse, blackout and overload
- Start-up delay function can avoid false alarm which may cause by temporary slowdown or load change
- Selectable rotate direction for both CCW and CW makes installation more versatile
- Light pulses are not affected by environmental conditions
- Complementary to our product Panel Meter PB/PM series

APPLICATIONS

- Low speed and overload protection monitoring of various conveyer systems
- Networked circuits to form sequential start or stop
- Frequently used machines: Grain and coal storage bucket elevators and belt conveyer machines

