



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



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.

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.

Vibrating Probe Level Switch

- Standard Type, Probe Extension Model, Ultra Extension Model, Cable Extension Model, Corrosion Proof & Ex-Proof Type
- Power supply: 100~240Vac, 50/60Hz, 18~30Vdc, 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



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



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.



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.



Radar level gauge

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



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.



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.



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



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



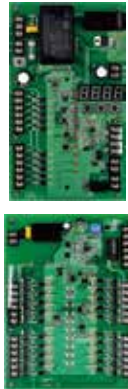
RF-Admittance Level Transmitter

- 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



Controller for Dust Collector System

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



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



Speed Monitor

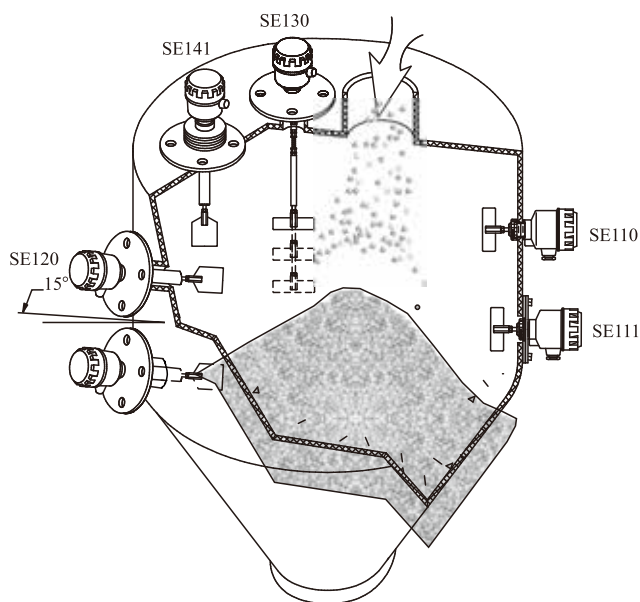
- Principle of photo detector and microprocessor
- Maximum monitoring range :
1 ~ 999 rpm
4 ~ 20mA (0~100/200/500/1000rpm)
- Alarm monitoring: Low speed, stop, reverse, blackout and overload
- Start-up delay function
- Alarm delay function can avoid fault alarm which many caused by temporary slow-down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



SEX 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.	20~70°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



SAX 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.

SUITABLE APPLICATION

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

SPECIFICATIONS

Power	110/220Vac $\pm 10\%$ 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

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 ~ SA278)

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.



SCX6 Vibrating Rod 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 100 ~ 240, 50/60Hz, 18~30Vdc
- SPDT Relay 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

Level control in cement factories, food industries, flour mills, coal mines, and pharmaceutical factories, among others.

SPECIFICATIONS

Power	100 ~ 240, 50/60Hz, 18~30Vdc
Output contact	SPDT, 5A/240Vac 3A /280Vdc
Probe material	SUS304/316, 316L
Connection	1"PT (other types are optional)
Operating temp.	-40~150°C
Max. vertical load on probe	Max. 177 in.Lbs (20Nm)
Operating pressure	16 bar
Housing	IP65 aluminum
Vibrating frequency	330~360 Hz
Min. material density sensed	powder: 0.04 g/cm ³
Selectable sensitivity	HI/LO

* Please refer to the detailed spec. in individual brochure



SCX 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

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

SUITABLE APPLICATION

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



JFR484 FMCW Radar Wave level gauge

OPERATING PRINCIPLE

The JFR4 radar wave level meter is a smart, non-contact solids level-measuring instrument that uses 80GHz high-frequency. The antenna is further enhanced for optimal processing. The new, fast microprocessor can perform signal analysis and processing at a faster rate, ideal for level measurement in storage tanks and solid silos.

Provides RS-485 digital signals and emits 4~20mA analog signals, which can be easily connected to back-end extension applications.

The product is dustproof and waterproof, suitable for outdoor or industrial environments, and can be used for industrial measurement of barrels and tanks, and other measurement of solids in industrial and environmental applications.

SPECIFICATIONS

Medium	Solids
Measurement range	35m/85m
Frequency	80GHz
Power supply	24VDC
Power consumption	Max.0.54W
Blind spot	1.6 uA
Resolution	0.4m/0.5m
Accuracy	±1mm
Analog output	4-20mA
Beam angle	4°
Operating temp. range	-40~120°C
Operating pressure	0~40 bar
Antenna material	φ76mm SUS304/SUS316L
Fault output	20.5mA ; 22mA ; 3.9mA
Damping time	0~100s adjustable
Cover material	Aluminum /IP67
Cable inlet	M20*1.5 (cable outer diameter: 6~9mm) Blind plug 20*1.5
Weight	2kg

※ The specification is subject to the brochure.

FEATURES

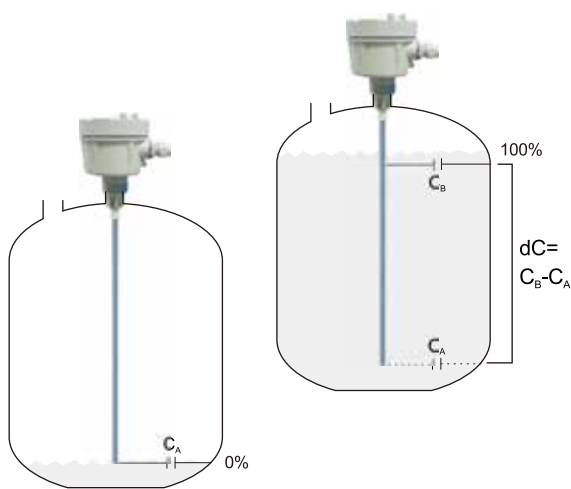
- Non-contact measurement, no wear and tear, and no pollution.
- Small antenna size, easy to install.
- Short wavelength, reflects well on inclined surfaces.
- The measurement blind spot is small; therefore having a good advantage when measuring small storage tanks. ; The beam angle is small, the energy is concentrated, and the echo ability is enhanced, making it conducive in avoiding interfering objects.
- Unaffected by temperature and pressure changes.
- Dust environments can also accurately read the real-time echo.
- High signal-to-noise ratio, even in the case of fluctuations.
- The 80GHz frequency is the best choice for measuring solid and low dielectric constant media, and it is suitable for the measurement of material working conditions with the dielectric constant of the medium under test ≥ 1.8 .



EBX 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 $^{\circ}\text{C}$ (max 200 $^{\circ}\text{C}$)
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

BVP-SSeries 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, conveyor, 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.



AEX6 Programmable sequential controller

OPERATING PRINCIPLE

Programmable Sequence Controller AEX6 is specifically designed for use with pneumatic dust collector systems. It comprises of a micro-processor and a logic analysis & control circuit, with an output of 10, 20 points (up to 620 points with an expansion board) to control the solenoid of the diaphragm valve which in turn controls the pulse jet sequence of the valves, thus achieving the dust collector's main objective of cleaning the bag filter. The LED display panel indicates the current pulse jet position. Pulse Jet time and interval time can be adjusted. The number of control points can also be adjusted and increased. Wide application range, with user-friendly operation.

It has an external current input terminal, which can be connected to a differential pressure transmitter or used for dust concentration detection. When the current reaches the set value, the fabric bag is attached to a greater degree, and the pulse jet interval is automatically shortened to improve the efficiency of bag cleaning. Continuous low current indicates that the fabric bag has broken and pressure has reduced. A built-in relay contact can be used as an alarm output.

FEATURES

- Digital display for easy operation and real time control of operation status.
- Microprocessor control accurate and precise operation.
- Remote control function convenient to start and stop operations.
- Able to automatically execute pulse jet cycle even after system shuts down, therefore preventing clogging caused by damp and dust residue in the fabric bag.
- Number of output points can be increased up to 620 points.
It can be connected to 4~20mA input (differential pressure or dust detection) when the set value is reached.
- Interval time is automatically shortened to improve performance, with a Relay output to warn when the fabric bag is broken.



SPECIFICATIONS

Voltage	100/240Vac, $\pm 10\%$ 50Hz/60Hz
Power consumption	3VA (excluding the output load)
Ambient temp.	-20~70°C
Pulse Jet time	10ms~9900ms
Pulse Jet interval	1~999 seconds
Shutdown cycle function	Yes
Remote control function	Yes
4~20mA input	Yes
Alarm output contact	SPST 3A 250Vac/24Vdc
Number of output points	Mother board -10, 20 and maximum expandable 620
External box	210x290x100 box ABS/cover PC.

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

BRC 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

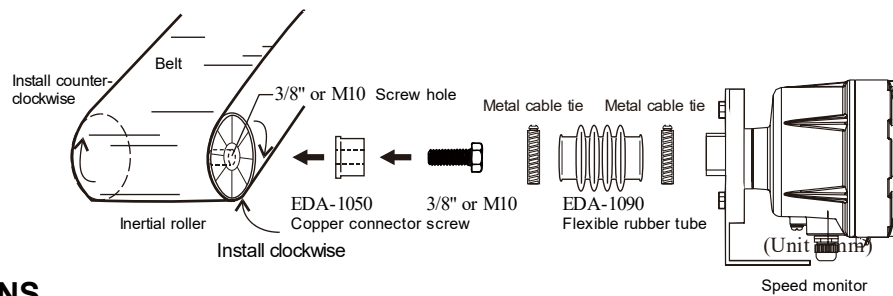
Power	24Vdc±10%, 110/220Vac, ±20% 50/60Hz DIN Optional for DIN connector or lead wire
Suitable fluid	Air
Body material	Aluminum
Diaphragm material	Engineering plastic or NBR
Operating temp .	-20~85°C
Ambient temp .	-20~60°C

* Please refer to the detailed spec. in individual brochure

EDX Speed Monitor

OPERATING PRINCIPLE

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℃
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



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