Creating a Better Future, FineTek Sensing the World

Total Instrumentation for Feed Milling

FineTek

Innovation · Quality · Sharing

FineTek has accumulated 40 years of technology and has always focused on the field of industrial sensing measurement and research and develop- ment.Specialized R&D capabilities and stringent process management have resulted in us not only obtaining ISO9001 certification but also meeting a variety of the industry certification.

FineTek is committed to the development of the flow meter, and research. Approved by the National Industrial Technology Research Institute (ITRI) who provides annual checks.The products are widely applied to all kinds of fluids and liquid applications.

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.

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
- It 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

SPECIFICATIONS

- Power: (A)110VAC, (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)

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.

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.
  - Standard Type (SA110 & SA111 A/B/C)
  - High-Temperature Type (SA120 & SA128 A/B/C)
  - Corrosion proof Type (SA130 & SA132 A/B/C)
  - Remote probe Type (SA140 A/B/C)
  - Cable Type (SA150 A/B/C)
  - Flat Plate Type (SA160 A/B/C)
  - Explosion-Proof Type (SA270 ~ SA279)
  - Intrinsically Safe Explosion-Proof Type (SA370 ~ SA378)
  - Anti-Static Type (SA180 & SA181 A/B/C)

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)

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

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

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: (PNP & NPN) Max. 350mA
- Operating pressure: 25 Bar
- Output signal: DPDT Relay / PNP & NPN
- IP protection: IP67 (Aluminum hosuing)
- Ex-proof cert.: NEPSI (pending)

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.

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.

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

EBX RF Admittance level transmitter

OPERATING PRINCIPLE

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

FEATURES

- 2 wires Loop power
- Low consumption of power (20mA)
- High accuracy of linearity (<±1% FS or ±0.5pF)
- Temperature compensation, low temperature effect (±0.2% FS/°C or 0.1pF/°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

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: <±0.2%FS/°C or 0.1pF/°C
- Operating pressure: max. 40kg/cm^2 (coating type: max. 32kg/cm^2)
- Housing: IP65 aluminum
- Ex-proof cert.: PTB ATEX, (optional)

BAH / BVP Air hammer

BAH Series Single Impacting Type

The single impact model of Air Hammer imparts 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.	Useful pressure	Air consumption	Impact	Weight
BAH-30	3~6 kg/cm²	0.028 l/e.t.	1.0 kg.m/s	1.1kg
BAH-40	3~6 kg/cm²	0.082 l/e.t.	2.8 kg.m/s	1.8kg
BAH-60	4~7 kg/cm²	0.228 l/e.t.	7.4 kg.m/s	4.0kg
BAH-80	4~7 kg/cm²	0.455 l/e.t.	12.5 kg.m/s	8.4kg

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/cm²	4kg/cm²	6kg/cm²	2kg/cm²	4kg/cm²	6kg/cm²		
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

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.

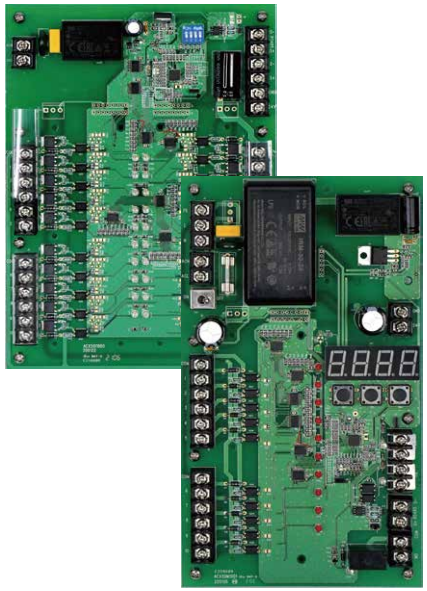
FEATURES

- 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 longterm preserve.
- Multi-points temperature measure to help the operator fast response on foods situation
- Prevent the grain rotten or fire cause by high temp..
- Customized the sensor interval
- Calibration can easy detect at any two points of the materials.
- RS-485 communication interface.

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)

AEX6 Programmable sequential controller



OPERATING PRINCIPLE

Programmable Sequence ControllerAEX6 is specifically designed for use with pneumatic dust collector systems. It comprises of a microprocessor 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, ±10% 50Hz/60Hz
- Power consumption: 3VA (excluding the output load)
- Ambient temp.: -20~70°C
- Pulse Jet time: 10~9900ms
- 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.

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

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.

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

SPECIFICATIONS

- Measuring Range: 0~999 rpm
- 7-seg led display: 1~999 rpm
- Alarm set point: Underspeed, standstill, power failure.
- Startup Delay: 3~30Sec.
- 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

MF5000 Flow meter bulk solids

OPERATING PRINCIPLE

Using the capacitive measuring principle, MF5000 generates a homo-geneous electromagnetic field. Bulk material that is transported through the sensor has a higher dielectric constant than air and thus in- creases the measured capacitance of the field.
The change in capacity is proportional to the bulk material concentration in the measuring pipe.

FEATURES

- Process and quality assurance ensured by reliable throughput measurement.
- Use in free fall and pneumatic convey- ance.
- Low overall height, easy integration into existing systems.
- Easy product calibration with calibration assistant.
- No influence from moving components in the vicinity.
- Optional output of velocity and concen- tration
- Large measuring range, also suitable for lower product concentrations.
- Large selection of sizes.
- Switchable direction of flow.

SPECIFICATIONS

- Power supply: 19~31VDC
- Process temp.: Standard max. 130°C
  Optional max. 160°C
- Pressure: 10/16 bar, opt. up to max. 64bar
- Materials (sensor housing): Galvanized steel, chromated, painted, normal steel
- Materials (Inner sensor pipe): Glass fibrereinforced epoxy resin Vinyl ester resin PTFE Ceramic
- Pipe diameter: DN25 ~ DN300
- Protection rating: IP68

PA 3000 In-line particle size measurement in real time

OPERATING PRINCIPLE

During material measurement, the product flows freely by gravity through the sensing tube. The system continuously diverts a representative partial flow of material for optical measurement. If the particle size exceeds or falls below the set limit values, alarm signals can be triggered via two relays. Particle size distribution can be displayed through software, and output via an RS485 communication interface is also available as an option.

FEATURES

- Continuous process recording — compliant with Industry 4.0 standards.
- Detects screen mesh damage, overload, and material overflow.
- Adjusts and optimizes screening and grinding processes.
- Continuously monitors incoming material particle size for quality control inspection.
- Direct measurement in the product flow.
- Measurable particle size range: 170~6,000 microns (µm).
- Distinguishable good/reject particle size difference: from 85 microns.
- Measures up to 10,000 particles per second.
- Self-cleaning function, maintenance-free.

SPECIFICATIONS

- Supply voltage: 12 VDC
- Current consumption: 105 mA
- Protection rating: IP65
- Noise level: 20 dB(A) according to DIN 45635
- Interface: S485 – IS (intrinsic safety function included)
- Process temp.: -10~60°C
- Process pressure: max. 6 bar / 87 psi (instrument)
- Purge air quality: AIR
- Certification: (ATEX zones 0/20 in preparation)
- Operating software: PA3000 View
- System requirements:
  Minimum windows XP – Service Pack 3

FS750 Filter leak monitor / Dust monitor

OPERATING PRINCIPLE

The dust concentration detection sensor uses the electrostatic induction measurement principle. When dust particles (charged particles) come into contact with, strike, or rub against the sensing probe, electric charges are generated on the probe. This phenomenon is called electrostatic induction. The induced charges are then amplified, analyzed, and processed by the sensor circuit.

FEATURES

- Prevents uncontrolled dust emissions and unnecessary cleaning caused by damaged dust filters.
- Ensures circulating air remains clean at all times.
- Ensures compliance with strict emission limits.
- Saves investment in additional emergency filter equipment.
- Detects filter damage with sensitive and fast response, and is not affected by dust buildup on the probe rod.
- Rugged design, well protected for years of operation in harsh environments.
- No wear, maintenance-free.
- Simple automatic calibration, easy to install in existing air ducts.

SPECIFICATIONS

- Power supply voltage: 24 VDC
- Housing material: Aluminum alloy
- Sensor rod material: Stainless steel (1.4571)
- Connection: 1/2" NPT
- Operating temp.: -20°C to 150°C
- Operating pressure: 0 to 2 bar
- Protection rating: IP65
- Output signal: 4–20 mA
- Adjustable parameter: Sensitivity
- Calibration method:
  Automatic calibration after more than 10 minutes
- Indicator: Multi-color LED for dust status

FineTek

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