

Field Sensors for Bag-Filter/ Dust Collector/ Scrubber System/ Material Handling

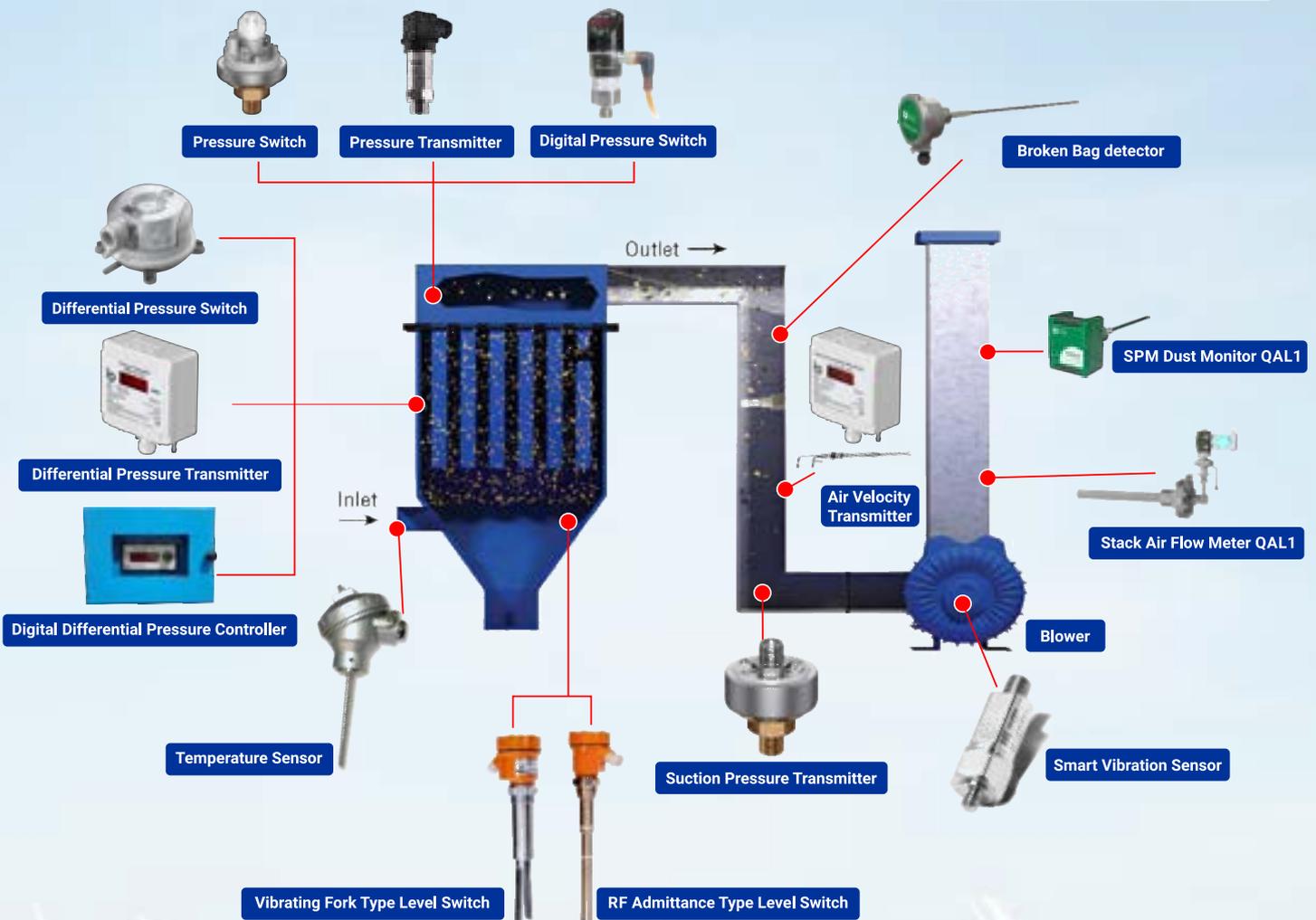
Maintain Continuous Operation of
Pollution Control Equipments



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TECHNOLOGY (INDIA) PVT. LTD.

MANAGE

the invisible



**Note : All Sensors Available in ATEX
and Flame Proof Version.**

Represented by :



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Temperature Sensor with Transmitter

Specification :

- ❖ Programming : Wireless with mobile application (no wiring required)
- ❖ Input : Thermocouple/ RTD
- ❖ Output : 4...20mA loop powered
- ❖ Power supply : Operating range 6-32 Vdc
- ❖ Connection : Screw pins
- ❖ Fixing : On DIN/ B head
- ❖ Operating conditions : Temperature -40+85 °C
- ❖ Galvanic isolation
- ❖ 3600 points data logger



Application : Process Temperature Measurement

Adjustable Pressure / Vacuum Switch

Specification :

- ❖ Pressure range : -700 mbar to 12 bar
- ❖ Max. operating pressure : 25 bar
- ❖ Diaphragm material : NBR
- ❖ Process connection : 1/4", BSP thread
- ❖ Switch type : SPDT (1NO+1NC)
- ❖ Material : Brass
- ❖ Accessories : IP65 cover cap



Application : Compressed Airline

- ❖ Conveying System
- ❖ Vacuum Pressure Measurement

Air Differential Pressure Switch - Protection Class IP 65

Specification :

- ❖ Pressure range : 500 – 2500 PA (50-250 mmWC)
- ❖ Switch type : SPDT (1 NO + 1 NC)
- ❖ Operating temperature range : -20°C to +85°C
- ❖ Hose connection : 6 mm(OD)



Application : Bag Filter Status, Blower Status

Air Differential Pressure Switch

Specification :

- ❖ Pressure range : 500 –2500 PA (50-250 mmWC)
- ❖ Switch type : SPDT (1 NO + 1 NC)
- ❖ Protection class : IP54
- ❖ Operating temperature range : -20°C to +85°C
- ❖ Hose connection : 6 mm (OD)



Application : Bag Filter Status, Blower Status

Digital Differential Pressure Gauge with 2 Relay Outputs

Specification :

- ❖ Pressure range : 0-250 mmWC (other on request)
- ❖ Pressure unit : Pascal (kPa); mbar; mmWC
- ❖ Power supply : Screw terminals 24 VAC/VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3-wire
- ❖ Switching output : Two adjustable relay switching outputs with a maximum switching capacity of 250VAC/5A
- ❖ Display : Red 7-segment LED display, -4 figure
- ❖ Accuracy : $\leq \pm 0.5\%$ of FS
- ❖ Process connection P1 and P2 : 4 mm and 6mm hose connection
- ❖ Other mounting provision : MS Enclosure - IP 65 with SS process connection

Application : Bag Filter Status



Air Differential Pressure Transmitter (IP 54)

Specification :

- ❖ Range : 0 ... 250 mmWC / 0 ... 500 mmWC (other on request)
- ❖ Supply voltage : 18 ... 30 VAC / VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3 wire
- ❖ With switching output
- ❖ Linearity : $\leq \pm 0.5\%$ FS, min. ± 1 Pa
- ❖ Protection class : IP54
- ❖ Working and storage temperature : -20+70 °C
- ❖ Hose connection with 6 mm outer diameter
- ❖ Display : optional



Application :

- ❖ Bag Filter Status
- ❖ Draft Pressure Measurement

Differential Pressure Transmitter (IP 65)

Specification :

- ❖ Range : 0 ... 250 mmWC / 0 ... 500 mmWC (other on request)
- ❖ Supply voltage : 18 ... 30 VAC / VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3 wire
- ❖ With switching output
- ❖ Linearity : $\leq \pm 0.5\%$ FS, min. ± 1 Pa
- ❖ Working temperature : -20 ... 70°C
- ❖ Protection class : IP65
- ❖ Display : Optional
- ❖ Process connection P1 and P2 : Stainless steel -Hose pipe connection with 4 / 6 mm outer diameter



Application :

- ❖ Bag Filter Status
- ❖ Draft Pressure Measurement

Differential Pressure Transmitter

Specification :

- ❖ Range : 0 ... 500 mmWC (other on request)
- ❖ Supply voltage : 18 ... 30 VDC
- ❖ Output : 4 ... 20 mA, 2-wire
- ❖ Accuracy : 0.5% of FS
- ❖ Protection class : IP54
- ❖ Linearity : $\leq \pm 0.5\%$ FS, min. ± 1 Pa
- ❖ Working temperature : -20 ... 70°C
- ❖ **Optional :** Flameproof Junction Box (IP66/67)
- ❖ Model: JB-90-FLP
- ❖ MOC: Cast Aluminium Alloy, LM-6 construction
- ❖ Process connection: 2 No. entries with 6 mm connector for tubing
- ❖ Cable entry: 1 No. entry with double compression cable gland for electric wiring



Application :

- ❖ Bag Filter Status
- ❖ Draft Pressure Measurement

Suction Pressure Transmitter

Specification :

- ❖ Pressure Range: ± 100 mbar / ± 50 mbar
- ❖ Max. working pressure: 900 mbar
- ❖ Membrane Material: NBR
- ❖ Accuracy : $\leq \pm 1\%$ FS
- ❖ Supply voltage: 18 .. 30 VDC
- ❖ Output: 2-wire; 4 - 20 mA
- ❖ Response Time: 500 ms
- ❖ Permissible Temperature range: -20°C ... +85°C
- ❖ Process connection: Brass, Thread G 1/4 inch BSP
- ❖ Electrical connection: M12 socket, 4 poles, A-coded
- ❖ Protection class: IP65



Application :

- ❖ Blower Suction Pressure Measurement

Digital Pressure Transmitter with Switching Outputs

Specification :

- ❖ Range : 0 to 10 bar (other on request)
- ❖ Outputs : 2 x digital transistor PNP max 500 mA
- ❖ 1 x analog selectable 4...20 mA / 0...10 V
- ❖ Process connection : 1/4" thread
- ❖ Power supply : 15...30 VDC
- ❖ Display : 4 digit 1...3 decimal points
- ❖ Pressure unit selectable : Bar, Psi, mPa, kPa, inWC, mmWC
- ❖ Electric connection : 5 Pole male M12x1
- ❖ Accuracy : $\pm 0,5\%$ F.S. @25°C
- ❖ Sensor working temperature : -25 ... + 85°C
- ❖ Rescalable till 1:2 full scale



Application : Compressed Airline

- ❖ Vacuum Conveying System
- ❖ Blower Pressure

Differential Pressure Gauge

Specification :

- ❖ Range : 0-300 mmWC
- ❖ Mounting diameter : 110mm
- ❖ Protection Class : IP65



Application : Bag Filter Status

Digital Differential Pressure Transmitter (IP 65)

Specification :

- ❖ Pressure range : 1 kPa / 2.5 kPa / 5 kPa / 10 kPa (selectable)
- ❖ Supply voltage : 15 ... 32 VDC, two-wire
- ❖ Output : 4 ... 20 mA
- ❖ Display : LCD, 4-digits
- ❖ Protection class : IP65
- ❖ Operating temperature : 0 ... 50°C
- ❖ Pressure ports for tubing : NW 4 or 6 mm
- ❖ Accuracy : 0.5% of FS



Application : Bag Filter Status

Portable Digital Manometer + Air Velocity Meter

Specification :

- ❖ Range : ± 2 kPa (± 200 mmWC)
- ❖ Velocity range : 5 ... 58 m/s
- ❖ Display : 3 1/2" Digit, LCD
- ❖ Accuracy : $\pm 0.5\%$ of max. value
- ❖ Operating temperature : 0 ... 50°C
- ❖ Power supply : 9 V battery with calibration certificate

Accessories:

- ❖ L - shape pitot tube
- ❖ Telescopic Pitot Static Tube

Application : Testing and Commissioning Purpose



Portable Vibration Meter

Specification :

- ❖ HE400 is an easy-to-use and compact portable measuring instrument.
- ❖ Measurement range: 0-16 mm/s rms
- ❖ Frequency range: 1...1000 Hz rms
- ❖ Measurement accuracy: +/- 5%
- ❖ Display accuracy: ± 1 decimal place
- ❖ Input signal: 4...20 mA DC
- ❖ Voltage supply: 4 x AA battery or accumulator (max.) power consumption: 25 mA
- ❖ Temperature range: 0°C ... +50°C



Pressure Transmitter

Specification :

- ❖ Pressure range : 0 to 10 bar
- ❖ Output signal : 4...20 mA
- ❖ Accuracy : 0.5% FS
- ❖ Mechanical connection : G 1/2" thread, SS
- ❖ Electrical connection : Connector DIN43650
- ❖ Operating temperature range : -20 to +85 degree C

Application : Compressed Air Line/ Utility

- ❖ Vacuum Conveying System
- ❖ Blower Pressure



Membrane/ Boot/ Overflow Level Switch

Specification :

- ❖ Product temperature : -20° C – +200°C
- ❖ Sensitivity : 200 – 500g adjustable
- ❖ Protection : IP65
- ❖ Density of the product : 0,3 t/m³ – 2,5 t/m³
- ❖ Diphgram material : SS/ NBR

Application : Screw Conveyor / Chute Jam Detection

- ❖ Bucket Elevator



RF Admittance Level Switch

Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-67/68
- ❖ Process temperature : 200 Degrees C
- ❖ Sensor type : Rigid rod probe sensing material : SS-316
- ❖ Insulation type : Part PTFE
- ❖ Process connection : Threaded 1- 1/2" BSP
- ❖ Universal supply 15-60VDC & 15-260VAC
- ❖ Output : 1 x DPDT potential - free relay output
- ❖ Relay rating : 5A 230VAC, 5A 24VDC for resistive loads
- ❖ Probe length : Customize

Application : Dust Hopper / Storage Silo



Vibrating Fork Level Switch

Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-67/68
- ❖ Process temperature: 200 Degrees C
- ❖ Sensing surface material : SS-316
- ❖ Process connection : Threaded 1 1/4" BSP
- ❖ Process connection material: SS-304
- ❖ Universal supply 15-60VDC & 15-260VAC
- ❖ Output : 1 x DPDT potential-free relay output
- ❖ Switching : Single-point level switching
- ❖ Relay rating : 5A 230VAC, 5A 24VDC for resistive loads
- ❖ Probe length: 250 mm (other on request)

Application : Dust Hopper/ Storage Silo



Rotating Paddle Level Switch

Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-67/68
- ❖ Max temperature 200 Degrees C
- ❖ Sensor extension rigid rod sensor
- ❖ Sensor extension material SS304
- ❖ Vane type double spring loaded
- ❖ Vane material SS-316
- ❖ Process connection : 1-1/2" BSP thread
- ❖ Process connection Material SS304
- ❖ Insertion length : 250 mm (other on request)
- ❖ Power supply : 230 VAC 50/60Hz

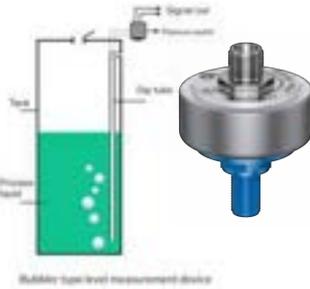
Application : Dust Hopper/ Storage Silo



Liquid Level Transmitter

Specification :

- ❖ Pressure Range: 0-50/100/200/300 mbar
- ❖ Accuracy: $\leq \pm 1\%$ FS
- ❖ Supply voltage: 18 ... 30 VDC
- ❖ Output: 2-wire; 4 - 20 mA
- ❖ Response Time: 500 ms
- ❖ Process connection: PVDF, Thread M10x1
- ❖ Electrical connection: M12 socket, 4 poles
- ❖ Protection class: IP65



Application :

- ❖ Scrubber Liquid Level Measurement

Conductivity Level Switch

Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-65/ 68
- ❖ Sensor type : Rigid rod (PTFE insulated)
- ❖ Material temperature : 200 Degrees C
- ❖ Sensor MOC : SS304
- ❖ Process connection : 1-1/2" BSP thread (M)
- ❖ Power supply : 12-260 VAC/12-60 VDC
- ❖ Output : 1 DPDT relay insertion length : 500mm
- ❖ Probe length : Customize

Application : Scrubber Liquid Level Measurement



Broken Bag Detector (SPM Dust Monitor)

Specification :

- ❖ Consisting of : Probe made of stainless steel
- ❖ Insertion length : 500 mm
- ❖ Channels /stacks without/with max. 100 mm insulation
- ❖ Probe head with evaluation unit made of stainless steel,
- ❖ Range : 0 ... 100% (0...1000 mg/m³ dust)
- ❖ Protection degree : IP 65
- ❖ Analog output : 4...20 mA (two-wire-transmitter)
- ❖ Power supply : 24 VDC (max. +25%, -10%)
- ❖ Exhaust gas temperature : max. 280°C
- ❖ Mounting by means of a Tri-Clamp snap closure on the counter-flange

Application : Bag-Filter Condition Monitoring, Stack Dust Monitor



Stack SPM Monitor or Dust Monitor (QAL1 Certified)

Specification :

- ❖ Compact device with aluminum housing
- ❖ Probe rod length : 500 mm
- ❖ Measuring range of dust : lowest certificated range 0 -7.5 mg/m³ dust, max. measuring range 0...250 mg/m³ dust
- ❖ Exhaust gas temperature : max. 280 °C
- ❖ Flow velocity : min. 5 m/s
- ❖ Protection degree : IP 65
- ❖ Interface : digital acc. to VD 4201 (MODBUS EIA-485)
- ❖ Analogue output : 4 ... 20 mA, electrically isolated
- ❖ Digital signals : failure, maintenance, limit value 1 and 2
- ❖ Power supply : 24 V DC or 110 V / 230 V AC 50/60 Hz
- ❖ Process connection : 1"Triclamp acc. to DIN 32676
- ❖ USB interface cable + software (from WIN7 onwards) for parameterization

Application : Dust Concentration Measurement of Exhaust Gas in Stack



Air Velocity Transmitter with S - Type Pitot Tube

Specification :

- ❖ Range : 0 ... 1 KPa (10 mbar)
- ❖ Velocity range : 0 ... 30 m/s
- ❖ Supply voltage : 18 ... 30 VAC / VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3-wire
- ❖ With switching output
- ❖ Display : LED display, red, 4 digits
- ❖ Accuracy : $\pm 1\%$ FS, min. ± 1 Pa
- ❖ Protection class : IP65
- ❖ **Optional** : Flameproof Junction Box

Accessories:

- ❖ S-type pitot tube (Stainless steel)
- ❖ Mounting type : cleat or flange

Application :

- ❖ Duct Velocity Measurement
- ❖ Stack Velocity Measurement



Vortex air and gas flow meter

Specification :

- ❖ Measuring range: 0.5 ... 40 m/s
- ❖ Media: Air and gases
- ❖ Sensor Length: 500 mm
- ❖ Sensor Probe material: PVDF conductive, ceramics
- ❖ Sensor type: Vortex flow sensor VA40
- ❖ Power supply: 24 VDC (20 ... 27 VDC)
- ❖ Analog output: 4 ... 20 mA
- ❖ Sensor Probe material: PVDF conductive, ceramics
- ❖ Switching output: open collector/max. 50 mA/max. 27 V DC
- ❖ Measurement uncertainty: < 1.0 % of measured value + 0.03 m/s
- ❖ Working temperature: -20 ... +100 °C
- ❖ Ambient temperature: -20 ... +60 °C
- ❖ Maximum working pressure: up to 3 bar
- ❖ Protection: IP68

Application

- ❖ Flow rate measurement at gas scrubbers



Digital Process Indicator

Specification :

- ❖ Compact Design
- ❖ Galvanic Isolation 1.5 kV
- ❖ Sampling Time 125 ms
- ❖ 3 Points Alarm output
- ❖ User-Friendly Operation and Configuration
- ❖ Password Protection for Configuration
- ❖ IP66 Protection Class for Front Flush
- ❖ Standard Retransmission Output (4-20 mA, 12000-bit Resolution)
- ❖ Lower Power Consumption (8VA), Longer Life of Electronics Modules
- ❖ Multi-input : total 18 types of input



Conductivity Meter

Specification :

- ❖ Extremely fast response times
- ❖ Measuring ranges freely configurable
- ❖ Process connection : G1"/ 2" SMS Connection
- ❖ Accuracy : 2% of measuring range final value
- ❖ Supply voltage : Ub=24V $\pm 20\%$ (18...32VDC)
- ❖ Output signal : 2x4-20 mA
- ❖ Protection category : IP69K
- ❖ Process Temperature : 20...100°C / 150°C (1h)

Application :

- ❖ Conductivity can be used to monitor scrubber solution strength/concentration



pH Sensor and Transmitter

Specification :

- ❖ 48 x 96 mm, panel mounting type
- ❖ Drip-proof/Dust-proof IP66 (for front panel only)
- ❖ Power supply : 100 to 240 VAC (standard)
- ❖ 2-points Contact output (standard)
- ❖ Proportional control, max. 4 points of relay contact
- ❖ Various settings & calibration via software
- ❖ pH-Value: pH 0...14
- ❖ Shaft Material : Glass
- ❖ Shaft Length : 120 mm
- ❖ **Optional** : Flameproof pH Transmitter

Application :

- ❖ Scrubber System
- ❖ FGD System



Smart Vibration Sensor

Specification :

- ❖ Vibration monitoring sensor
- ❖ Housing material and fastening : 1.4305 (V2A) with fastening
- ❖ M8 x 8 ; pitch 1.25 mm (standard)
- ❖ Output : 4-20 mA, 3 wire
- ❖ Measuring range : 0 -25mm/s rms
- ❖ Electrical connection : M12 connector
- ❖ Measuring head temperature : -40°C ... +85°C
- ❖ Protection class : IP 66/67 frequency range : 10... 1,000 Hz
- ❖ IO link also available on request

Application : Fan & Bearing Status ❖ Pump ❖ Motor

