

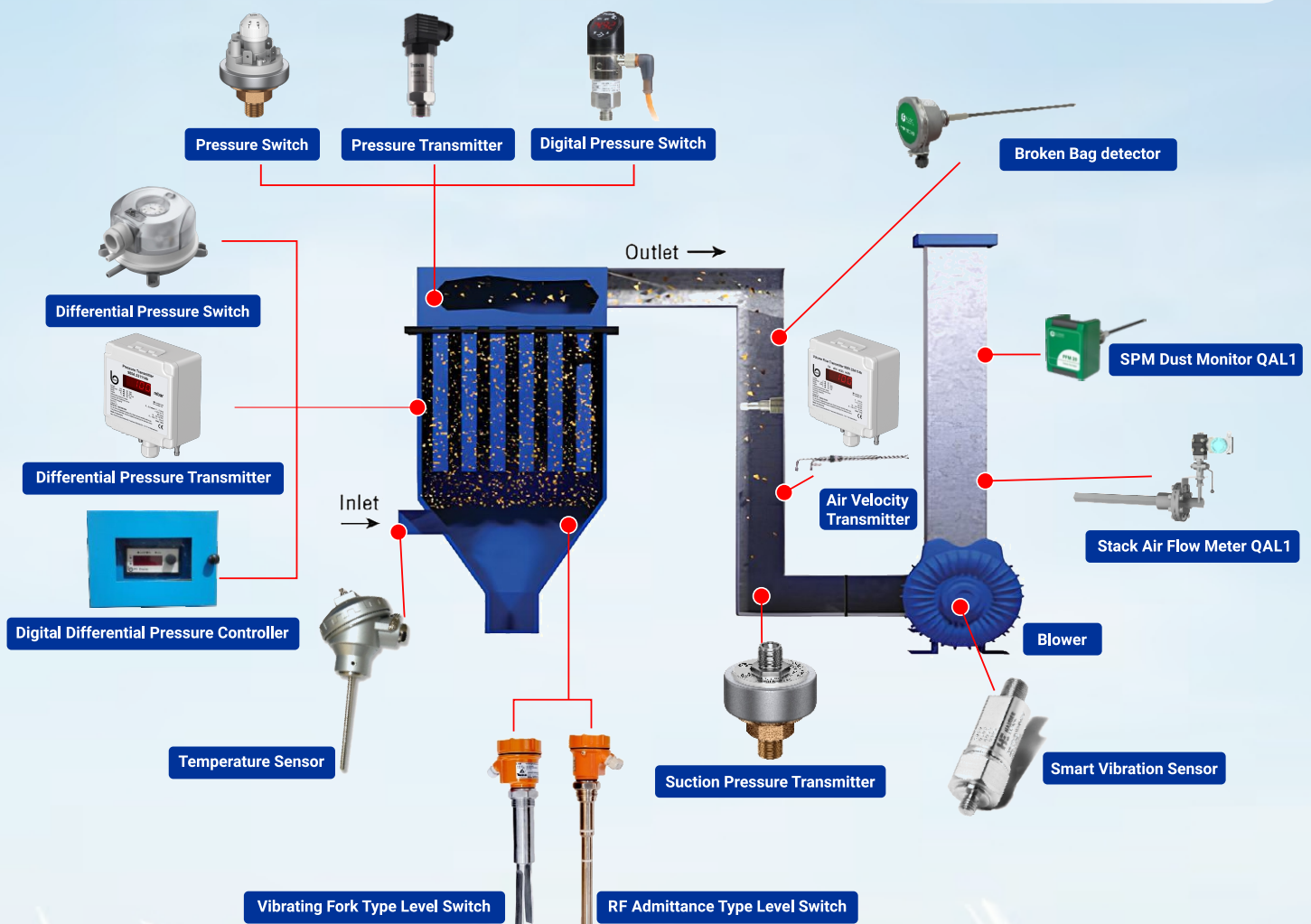
# Field Sensors for Bag-Filter/ Dust Collector/ Scrubber System/ Material Handling

Maintain Continuous Operation of  
Pollution Control Equipments



**PARSHVI**<sup>®</sup>  
TECHNOLOGY (INDIA) PVT. LTD.

## MANAGE the invisible



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

**Represented by :**



**PARSHVI**<sup>®</sup>  
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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

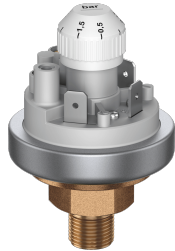


**Application :** Process Temperature Measurement

### 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 IP65

#### 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.  $\pm 1$  Pa
- ❖ Protection class : IP54
- ❖ Working and storage temperature : -20 .....+70 °C
- ❖ Hose connection with 6 mm outer diameter
- ❖ Display : optional



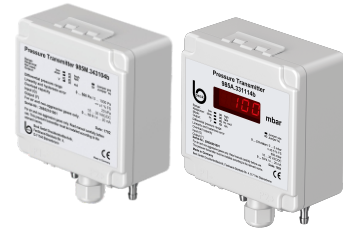
#### Application :

- ❖ 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.  $\pm 1$  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.  $\pm 1$  Pa
- ❖ Working temperature : -20 ... 70°C



#### Application :

- ❖ Bag Filter Status
- ❖ Draft Pressure Measurement

### Suction Pressure Transmitter

#### Specification :

- ❖ Make: Beck GmbH, (Made in Germany)
- ❖ Model: 981
- ❖ Pressure Range:  $\pm 100$  mbar /  $\pm 50$  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 67)

#### Specification :

- ❖ Pressure range : 1 kPa/2.5 kPa/5 kPa/10 kPa (selectable)
- ❖ Supply voltage: 15 ... 32 VDC, two-wire
- ❖ Output : 4 ... 20 mA
- ❖ Protection class : IP67
- ❖ Operating temperature : 0 ... 50°C
- ❖ Pressure ports for tubing : NW 4 or 6 mm
- ❖ Display : 3 1/2 digits
- ❖ Accuracy : 0.5% of FS

#### 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 :  $\pm 2$  kPa ( $\pm 200$  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



### 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/m<sup>3</sup> – 2,5 t/m<sup>3</sup>
- ❖ Diphagram 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

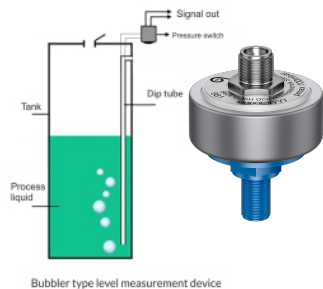




## Liquid Level Transmitter

### Specification :

- ❖ Make: Beck GmbH, (Made in Germany)
- ❖ Model: 981
- ❖ 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/m<sup>3</sup> 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/m<sup>3</sup> dust, max. measuring range 0...250 mg/m<sup>3</sup> 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

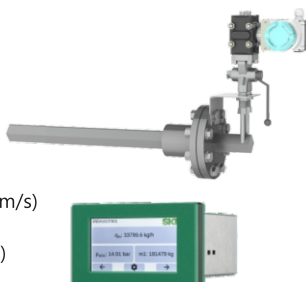


## Stack Air Flow Transmitter (QAL1 certified)

### Specification :

- ❖ Stack Air Flow Meter (QAL1 certified)
- ❖ Make: SKI GmbH
- ❖ Model: AccuFlo® QAL
- ❖ Measuring principle : Differential pressure
- ❖ Gas: Exhaust gas, flue gas, with dust/particles, water-saturated
- ❖ Measurement range: 2 ... 20 m/s (up to 2 ... 60 m/s)
- ❖ Stack/Duct Diameter: DN 100 ... DN 10000
- ❖ Power supply: 115/230 V AC (Optional 24 V DC)
- ❖ Medium temperature: up to 800°C Higher
- ❖ Temperature on request
- ❖ Material: 1.4571, Hastelloy

**Application :** Stack Air Flow Measurement



## 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.  $\pm 1$  Pa
- ❖ Protection class : IP65

### Accessories:

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



### Application :

- ❖ Duct Velocity Measurement
- ❖ Stack Velocity Measurement

## 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 :  $U_b = 24V \pm 20\%$  (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

### Application :

- ❖ Scrubber 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

