

Cement & Power Industry



PARSHVI
TECHNOLOGY (INDIA) PVT. LTD.



Represented by :



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Non-Contact Infrared Temperature Sensor

Specification :

- ❖ Temperature range : 0 to 500°C
- ❖ Output : 2 wire, 4-20mA
- ❖ Accuracy : $\pm 1\%$ of reading or $\pm 1^\circ\text{C}$, whichever is greater
- ❖ Supply voltage : 24 V DC (28 V DC max)
- ❖ Cable length : 1 meter

Application : Clinker Cooler Outlet Temperature



Pyro USB Infrared Temperature Sensor

Specification :

- ❖ Short wavelength sensor for high temperature objects
- ❖ Temperature range : 250°C to 2000°C
- ❖ Output : 4 to 20 mA (2 wire)

Application :

- ❖ Kiln burning zone temp.



Non-Contact Infrared Temperature Sensor

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- ❖ Output : 2 wire, 4-20mA
- ❖ Accuracy : $\pm 1\%$ of reading or $\pm 1^\circ\text{C}$, whichever is greater
- ❖ Supply voltage : 24 V DC (28 V DC max)
- ❖ Cable length : 1 meter

Application :

- ❖ Fluid Coupling Temperature Measurement
- ❖ Rolling Mill Shell Body Temperature Measurement
- ❖ Critical Motor Surface Temperature Measurement
- ❖ Condition Monitoring of Rotating Equipment
- ❖ Material Temperature Monitoring on Conveyor Belt



Multi-Channel Kiln Shell Hot Spot Detection Systems

Specification :

- ❖ RS-485 Modbus interface
- ❖ Measures temperatures from -20°C to 1000°C
- ❖ For use in ambient temperatures of up to 120°C without cooling
- ❖ Compatible with third-party RS-485 Modbus Master devices, or Calex touch screen interface
- ❖ 6-channel temperature display with configuration alarms and data logging
- ❖ Analogue and alarm relay outputs via optional modules
- ❖ Build larger systems using the PM180's separate Modbus Master and Slave interfaces

Application : Coal Temperature Measurement on Conveyor Belt

- ❖ Condition Monitoring of Conveyor Belt Gear Shaft
- ❖ Bus Bar Joints Temperature Monitoring
- ❖ Multi-Channel Kiln Shell Hot Spot Detection Systems



Wireless Temperature Transmitter

- ❖ Wireless Transmitter- Input Module
- ❖ Model : WTR-IM
- ❖ Make: Produl Oy,
- ❖ Supply: 3,6 V lithium battery (3600 mAh), or 10...30 Vdc / 12...28 Vac
- ❖ Network frequency : 2.4 GHz,
- ❖ Temperature measurement : Range : 0...50 °C
- ❖ Accuracy : $\pm 0.2^\circ\text{C}$,
- ❖ Humidity Measurement : Range 0...100 %rH,
- ❖ Accuracy (25 °C) typ. $\pm 2\%$ rH,
- ❖ Commissioning tool : Produl MyTool® App,
- ❖ Housing : PC plastic,
- ❖ Protection class IP30
- ❖ Mounting : on the wall surface
- ❖ Dimensions (w x h x d) : 97 x 97 x 33

Application : Temperature measurement in double chamber ball mill.



Thermocouple Calibrator and Simulator

Specification :

- ❖ Single-channel, dual-function data logger and thermocouple simulator
- ❖ Universal thermocouple input
- ❖ Simulate a thermocouple voltage for a chosen temperature
- ❖ Built-in USB-rechargeable battery
- ❖ Push button controls and intuitive menu
- ❖ Free software with temperature display and scrolling graph
- ❖ Data logging of live temperature data direct to PC
- ❖ File format: Comma-separated text file (compatible with Excel)
- ❖ Configuration of Excelog One settings
- ❖ Excelog One is compatible with third party Modbus software



6 Channel Handheld Temperature Data Logger with Touch Screen

Specification :

- ❖ 4 x thermocouple inputs and 2 x RTD inputs
- ❖ Display and log all 6 channels simultaneously or individually
- ❖ Data logging to SD Card, or PC via USB interface
- ❖ Data logging of live temperature data direct to PC
- ❖ Powered by built-in battery, USB or mains adapter (included)
- ❖ Touch screen with backlight
- ❖ Fully configurable; no additional hardware is required for configuration
- ❖ Free software available; Modbus protocol allows use with third-party software
- ❖ 2-channel scrolling temperature chart
- ❖ Alarm indication for each channel

Application

- ❖ Calibration
- ❖ Validation



Universal Temperature 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
- ❖ 1.5Kv Galvanic isolation
- ❖ 3600 points data logger



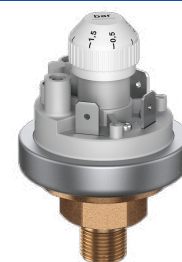
Adjustable / Gas/ Vacuum Pressure Switch

Specification :

- ❖ Pressure range -700 mbar to 12 bar
- ❖ Max. operating pressure : 25 bar
- ❖ Switch type : 1 - SPDT
- ❖ Protection class : IP65

Application

- ❖ Utility
- ❖ Boiler
- ❖ Pump Control
- ❖ Gas Pressure Measurement



Pressure Transmitter 981

- ❖ Range: From -100 mbar upto 600 mbar
- ❖ Pressure Unit: mbar
- ❖ Membrane Material: FKM / FPM
- ❖ Operating temperature: -20°C to $+85^\circ\text{C}$
- ❖ Max. positive working pressure: 900mbar
- ❖ Max. negative working pressure: -1 bar
- ❖ Accuracy: $\pm 1\%$ FS
- ❖ Supply voltage: 10 ... 30 VDC
- ❖ Output: 2-wire; 4 - 20 mA
- ❖ Response Time: 500 ms
- ❖ Process connection: V2A - AISI304 ,Thread, G 1/4"
- ❖ Electrical connection: M12 plug, 4 poles, A-coded
- ❖ Protection Class: IP65

Application

- ❖ Blower Suction Pressure Measurement



Digital Pressure Switch Cum Transmitter

Specification :

- ❖ Range : -1 to 400 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
- ❖ Display : 4 Digit 1..3 decimal points
- ❖ Protection class : IP65
- ❖ 3600 points data logger
- ❖ Pressure unit selectable : Bar, Psi, MPa, kPa, inWC, mmWC
- ❖ Configuration very easy and can done through mobile application

Application : Hydraulic Power Pack/ Utility



Differential Pressure Switch

Specification :

- ❖ Pressure range : 50 to 500 mmwc
- ❖ Protection class : IP65

Application :

- ❖ Bag Filter Pressure Monitoring
- ❖ Fan/ Blower Flow Monitoring



Digital Differential Pressure Transmitter

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

Application :

- ❖ Bag Filter Pressure Monitoring
- ❖ Draft Pressure Monitoring
- ❖ Fan/ Blower Flow Monitoring



Digital Differential Pressure Transmitter

Specification :

- ❖ Range : 0 ... 250 mmWC / 0 ... 500 mmWC
- ❖ 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 :

- ❖ Draft Pressure Measurement
- ❖ Bag Filter Pressure Monitoring
- ❖ Fan/ Blower Flow Monitoring



Digital Differential Pressure Gauge with 2 Relay Outputs

Specification :

- ❖ Pressure range : 0-500 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 : $\leq \pm 1\%$ of FS
- ❖ Process connection P1 and P2 : 4 mm and 6mm hose connection
- ❖ Protection class : IP20
- ❖ Other mounting provision : MS Enclosure - IP 65 with SS process connection

Application :

- ❖ Bag Filter Pressure Monitoring
- ❖ Bag House Condition Monitoring



High Precision Differential Pressure Transmitter

Specification :

- ❖ Output signal : 4 ... 20 mA
- ❖ Operating voltage : 24 VAC/DC (4-wire)
- ❖ Measurement range : ± 1 mmwc
- ❖ Accuracy : $\pm 0.2\%$ FS

Application :

- ❖ Draft pressure measurement



Differential Pressure Transmitter for Liquids

Specification :

- ❖ Range: 0-2.5, 0-6, 0-10 bar (special measuring ranges on request)
- ❖ Supply : 18 – 30 V AC/DC
- ❖ Output signal : 0-10 Volt & 4 to 20 mA
- ❖ Process connection : 2 x inner thread G1/4 Axial
- ❖ Accuracy : $\pm 0.4\%$ (typ.) / ± 1.0 (max.)
- ❖ Protection class : IP65

Application :

- ❖ Differential pressure measurement between supply and return in heating systems
- ❖ Monitoring of filters, fans and compressors
- ❖ Oil filter status



Membrane / Boot / Chute Jam 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

Application :

- ❖ Bucket elevator
- ❖ Chute jam
- ❖ Screw conveyor jam detector
- ❖ To maintain low level of bulk solid in silos or vessels



Pendulum Level Indicators

Specification :

- ❖ Rod lenght : Upto 2000 mm
- ❖ Product density : 0,3 t/m³ – 3 t/m³
- ❖ Maximum pressure : +0,5 bar
- ❖ Switching function : 1 NO + 1 NC
- ❖ Capacity of the contact : 15 A / 250 V AC (for resistive loads)
- ❖ Bulk good temperature : -25° C – +80° C
- ❖ Type of protection : IP66 according to DIN En60529
- ❖ Materials : Housing Aluminium, RAL 7001 coated

Application :

- ❖ High Level Switch of Storage Bunkers and Silo
- ❖ Level Measurement in Stacker Reclaimer Machine
- ❖ Control of Conveying Belts for Gravel
- ❖ Level Control in A Coal Bunker



Capacitive Level Switch

Specification :

- ❖ Output signal : PNP, NPN or Push-Pull, Switchable with LED Indication
- ❖ Supply voltage : 12...32VDC
- ❖ Electrical connection : M12 x5
- ❖ Process Temp : 0°C...100°C/max,130°C (<1h) with ambient temperature 40°C
- ❖ Process pressure : max 10bar
- ❖ Process connection: G1/2"
- ❖ Response time : <0.2sec
- ❖ Protection category : IP67 according to DIN EN 60529
- ❖ Switching-delay : <0.3 sec

Application :

- ❖ Liquid level switch



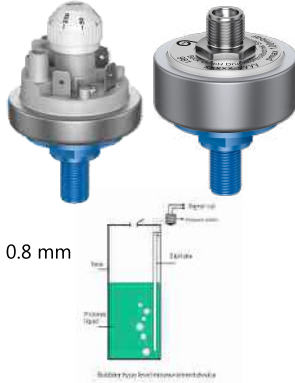
Water Level Switch/ Transmitter

Specification :

- ❖ Ambient temperature : -20°C to +85°C
- ❖ Range : As per tank height upto 1 meter
- ❖ Tube connection or Threaded connection (CuZn40 = brass, V2A = stainless steel)
- ❖ Diaphragm material : NBR
- ❖ Switch type : SPDT
- ❖ Output signal : 4 ... 20 mA
- ❖ Electrical rating : max. 6 (1.5) A / 250 VAC
- ❖ Electrical connection : Tab terminal 6.3 mm x 0.8 mm
- ❖ Protection Class : IP65

Application :

- ❖ Liquid Level Monitoring



ph/ ORP / Conductivity Meter

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

Application :

- ❖ Water Treatment
- ❖ low Ionic Boiler Feed Water ❖ ETP



pH Electrode

Specification :

- ❖ Measuring range pH 0.. 14 ❖ Very small alkaline error
- ❖ Long service life due to refillable reference electrode
- ❖ High quality Zirkon junction for reliable measurement results
- ❖ Dirt-repellent and corrosion resistant PTFE junction
- ❖ Reference System: Ag / AgCl / Solid electrolyte
- ❖ Integrated temperature sensor ❖ Max. Pressure : < 10 bar

Application :

- ❖ Scrubber System ❖ Low Ionic Boiler Feed Water
- ❖ Drinking Water Treatment

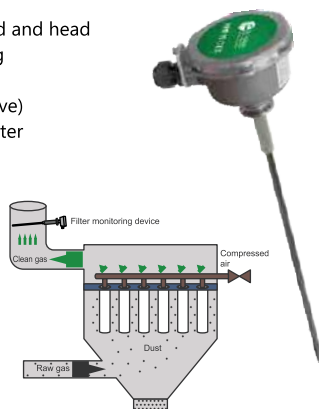


Broken Bag Detector (Filter Monitoring Device)

Specification :

- ❖ Probe : Tribo-electric probe consisting of rod and head
- ❖ Probe rod : Electrically isolated from housing
- ❖ Immersion depth : 500 mm
- ❖ Measuring range of dust : 0...100% (qualitative)
- ❖ Analogue output : 4...20 mA, 2-wire transmitter
- ❖ Galvanically isolated to device ground
- ❖ Power supply : 24 VDC (max. +25%, -10%)
- ❖ Exhaust gas temperature : Max. 260°C
- ❖ Process connection : Welding sleeve with Tri-Clamp fastener
- ❖ Housing : IP 65, protection class 1
- ❖ No purge air blower required
- ❖ Easy mounting

Application : Broken Bag Leak Detector



Stack Dust Monitoring Device - 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 : IP65
- ❖ Analog input : 1 x 4...20 mA for external velocity v [m/s]
- ❖ Analog output : 4 ... 20 mA, electrically isolated
- ❖ Digital outputs : 4 potential free contacts for failure
- ❖ Power supply : 110 V / 230 VAC
- ❖ Process connection : welding sleeve with Tri-Clamp fastener



Air Flow Transmitter with Annubar

Specification :

- ❖ Output signal : 4 ... 20 mA
- ❖ Operating voltage : 24 VAC/DC (4-wire)
- ❖ Measurement range : ±50 Pascal
- ❖ Accuracy : ±0.2% FS

Application :

- ❖ Air flow measurement



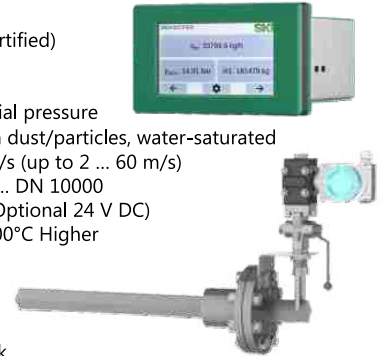
Stack Air Flow Transmitter (QAL1 certified)

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 :

- ❖ Air Flow Measurement in Stack



Vortex air and gas flow meter

Specification :

- ❖ Measuring range: 0.5 ... 40 m/s
- ❖ Measurement uncertainty: < 1.0 % of measured value + 0.03 m/s
- ❖ Power supply: 24 VDC (20 ... 27 VDC)
- ❖ Analog output: 4 ... 20 mA
- ❖ Output limit value: potential-free relay contact (normally open), max. 300 mA / 27 VDC
- ❖ Working temperature: -20 ... +100 °C
- ❖ Ambient temperature: -20 ... +60 °C
- ❖ Seal material: PFA
- ❖ Maximum working pressure: up to 3 bar
- ❖ Material aluminum cast alloy max. 0.5 % Mg, coated
- ❖ Protection: IP68
- ❖ Electronics in Ex-d protection (flameproof enclosure)
- ❖ Connection glands for shielded cables with outside diameter 5 ... 9 mm

Application

- ❖ Kiln and Preheater Airflow Monitoring
- ❖ Grinding Mills Air flow monitoring
- ❖ Air flow measurement in the clinker cooling systems



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 : ± 1% FS, min. ± 1 Pa
- ❖ Protection class : IP65

Accessories:

- ❖ S-type pitot tube (Stainless steel)
- ❖ Length : 500 mm
- ❖ OD : 6 mm
- ❖ Mounting type : cleat or flange

Application : Duct Velocity Measurement



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
- ❖ Length : 600 mm
- ❖ Process connection : 6 mm hose



Application

Differential Pressure Measurement Across the Filter Draft Pressure Measurement, Air Velocity Measurement in Process

Vibration Sensors with 2 Relay

Specification :

- ❖ Vibration monitoring unit mm/s, rms or g rms
- ❖ 2 potential-free switching contacts as limit values
- ❖ Analogue Current Output: 4-20 mA
- ❖ Measuring Range : 16 mm/s rms
- ❖ Frequency Range : 1 ... 1.000 Hz
- ❖ Housing Material : 1.4305 (V2A) (Standard)
- ❖ Temperature Range : -40 °C ... +85 °C all plug variants

Application

- ❖ Most critical grinding mill gearbox vibration safety

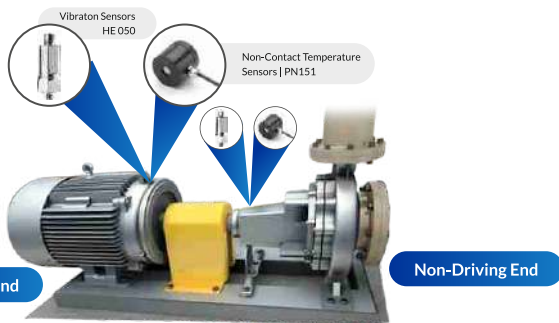


Vibration & Temperature Sensors

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 - 25 mm/s rms (other on request)
- ❖ 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 : Mills/ Fans /Centrifuges Fans/ Pumps Cooling Towers/ Turbine



Smart Vibration Sensors (IO-Link)

- ❖ All measurands are cycled through IO-Link as process data
- ❖ Vibration speed (mm/s, rms) ❖ Vibration acceleration (g, rms)
- ❖ Vibration acceleration (g, peak) ❖ Temperature (°C)
- ❖ Bearing status parameter (cresT) 10Hz-10,000Hz
- ❖ Acyclic retrieval of device data and diagnostic data ❖ Maintenance Manager
- ❖ Both outputs can be configured as digital switching outputs
- ❖ Output 2 can be configured as an analog output
- ❖ Frequency range: any can be selected between 1-1,000 Hz**



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: $\pm 5\%$
- ❖ 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



Digital Process Indicator

Specification :

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



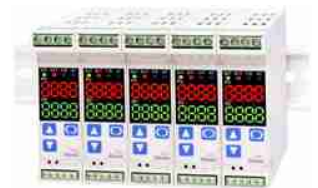
DIN Rail Mounted Temperature Transmitter / Isolator

Specification :

- ❖ Multi-input : total 18 types of input
- ❖ Loop break alarm output
- ❖ Compact design
- ❖ Galvanic isolation 1.5 kV
- ❖ Sampling time 125 ms
- ❖ User-Friendly operation & configuration
- ❖ Password protection for configuration
- ❖ Calibration of transmitter by key pad

Application :

- ❖ Digital Safety Temperature Limiter
- ❖ DIN Rail Mounted Temperature Transmitter



R to I converter

Specification :

- ❖ Power supply - 6..32 V DC
- ❖ Analogue inputs - 1 x selectable among 0..20 mA, 4..20 mA, 0..10V, 0..4000Ω
- ❖ Sampling/response time - 300 ms / 600 ms
- ❖ Output - 4..20 mA (2-wire power loop)



Flow totalizer / bargraph indicator

Specification :

- ❖ The monochromatic OLED graphic display
- ❖ The linearization of input can be customized up to 16 points
- ❖ Communication-rs485 with modbus RTU/slave protocol
- ❖ Horizontal or vertical installation of the same device
- ❖ Multi-voltage power supply
- ❖ Showing process trend with programmable sampling times and bar graphs The monochromatic OLED graphic display
- ❖ The linearization of input can be customized up to 16 points
- ❖ Communication-rs485 with modbus RTU/slave protocol
- ❖ Horizontal or vertical installation of the same device
- ❖ Multi-voltage power supply
- ❖ Showing process trend with programmable sampling times and bar graphs

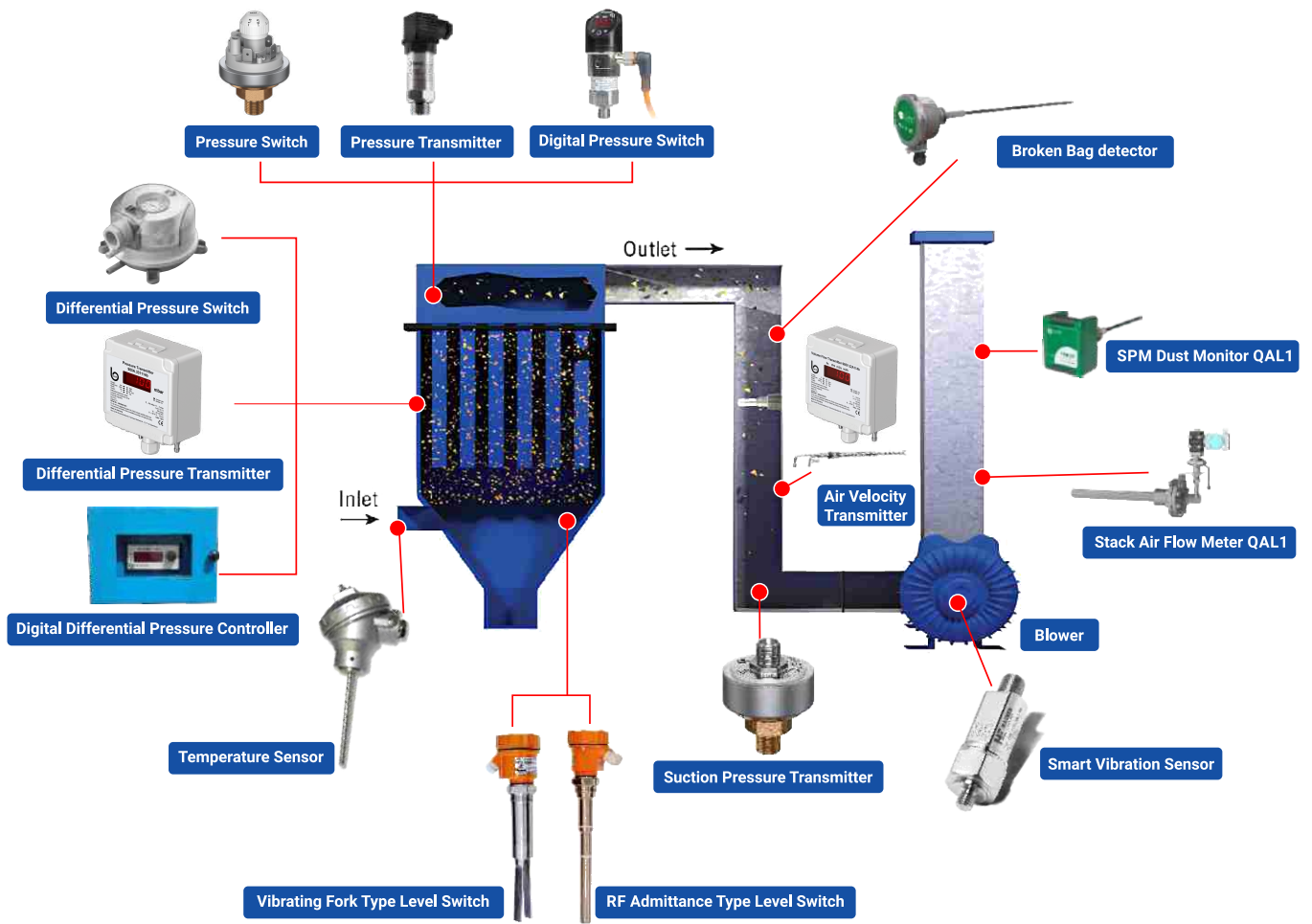
Technical Features

- ❖ Monitor the process parameter



Instruments for optimizing the bag-filter system

(Maintain continuous operation of pollution control equipment's)



Our Valued Customers

