

# Instrument Solution for Boiler, Dryer, Gasifiers & Hot Air Generator



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



**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



### Air Differential Pressure Switch

#### Specification :

- ❖ Pressure range : 500 – 2500 PA (50-250 mmWC)
- ❖ Switch Type : Single-pole double-throw (SPDT) (1 NO + 1 NC)
- ❖ Protection standard : IP 54
- ❖ Temperature range : -20°C to +85°C

**Application :** Bag Filter System



### Air Differential Pressure Switch

#### Specification :

- ❖ Pressure range : 50-500 Pa ( 5-50mmWC ) and 100 – 1000 PA (10-100 mmWC)
- ❖ Switch Type : Single-pole double-throw (SPDT) (1 NO + 1 NC)
- ❖ Protection standard : IP 54
- ❖ Temperature range : -20°C to +85°C

**Application :** Boiler Chamber Pressure



### Digital Differential Pressure Gauge with 2 Relay Outputs

#### Specification :

- ❖ Pressure Range : 0 – 250 mmWC
- ❖ 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 6 mm hose connection
- ❖ Protection class : IP20, mounting: Panel mounting
- ❖ Optional : IP65 weatherproof enclosure

Note : Pressure range available as per customer requirement

**Application :** Bag-filter System



### 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 :

- ❖ ID / FD Fan, Duct Velocity Measurement
- ❖ Stack Velocity Measurement



### Adjustable Pressure Switch

#### Specification :

- ❖ Positive pressure range : 500 mbar upto 12 bar
- ❖ Max. operating pressure : 10/ 25 bar
- ❖ Diaphragm Material : NBR
- ❖ Pressure Connection : 1/4-inch thread
- ❖ Switch type: SPDT (1NO+1NC)
- ❖ PC Material : Brass
- ❖ Accessories : IP65 protection class cover – cap

**Application :** Compressed Airline, Boiler Pressure



### Gas Pressure Switch

#### Specification :

- ❖ Pressure Range : 5 ... 500 mbar
- ❖ Max. operating pressure : 0.5/1 bar
- ❖ Diaphragm Material : NBR
- ❖ Pressure Connection : 1/4-inch thread
- ❖ Switch type: SPDT (1NO+1NC)
- ❖ PC Material : Brass
- ❖ Accessories : IP65 protection class cover–cap

**Application :** Gas Burner, Boiler Pressure



### Draft Pressure Transmitter

#### Specification :

- ❖ Range : -30 ... 0 ... +30 mmWC or (other on request)
- ❖ Supply Voltage : 18 ... 30 VAC / VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3-wire or 4 ... 20 mA, 2-wire is also available
- ❖ With switching output
- ❖ Linearity :  $\leq \pm 0.5\%$  FS, min.  $\pm 1$  Pa
- ❖ Working temperature : -20 ... 70°C
- ❖ Protection class : Ip65
- ❖ Display : with LED-display, 4 digits (only for 3-wire)
- ❖ Process connection P1 and P2 : Stainless steel - Hose pipe
- ❖ Connection with 4 / 6 mm outer diameter

**Application :** Draft Pressure Measurement



### Draft Pressure Transmitter of ID/FD Fan

#### Specification :

- ❖ Range : 0-1000mmWC (other on request)
- ❖ Supply Voltage : 18 ... 30 VAC / VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3-wire or 4 ... 20 mA, 2-wire is also available
- ❖ With switching output
- ❖ Linearity :  $\leq \pm 0.5\%$  FS, min.  $\pm 1$  Pa
- ❖ Working temperature : -20 ... 70°C
- ❖ Protection class : Ip65
- ❖ Display : with LED-display, 4 digits (only for 3-wire)
- ❖ Process connection P1 and P2 : Stainless steel - Hose pipe
- ❖ Connection with 4 / 6 mm outer diameter

**Application :** Draft Pressure Measurement of ID/FD Fan



### Suction Pressure Transmitter

#### Specification :

- ❖ 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



## Differential Pressure Transmitter

### Specification :

- ❖ Pressure Range :  $\pm 250$  Pa/ $\pm 500$  Pa/ $\pm 1$  kPa/ $\pm 2.5$  kPa (selectable)
- ❖ Supply Voltage : 15 ... 32 VDC, two-wire
- ❖ Output : 4 ... 20 mA
- ❖ Protection class : Ip67
- ❖ Pressure ports for tubing : NW 4 or 6 mm
- ❖ Display : 31/2 digits
- ❖ Accuracy :  $\pm 1\%$  of the set value
- ❖ Display : (Optional)

**Application :** Draft Pressure & Bag-filter System



## Differential Pressure Transmitter

### Specification :

- ❖ Range :  $\pm 1$  kPa/ $\pm 2.5$  kPa/ $\pm 5$  kPa/ $\pm 10$  kPa
- ❖ Supply Voltage : 15 ... 32 VDC, two-wire
- ❖ Output : 4 ... 20 mA
- ❖ Protection class : Ip67
- ❖ Pressure ports for tubing : NW 4 or 6 mm
- ❖ Display : 31/2 digits
- ❖ Accuracy :  $\pm 1\%$  of the set value
- ❖ Display : (Optional)

**Application :** Draft Pressure & Bag-filter System



## Pressure Transmitter

### Specification :

- ❖ Pressure Range: 0 to 10 bar (6 bar, 16 bar, 25 bar, 40 bar)
- ❖ Output Signal: 4...20 mA
- ❖ Accuracy: 0.5% FSO
- ❖ Electrical Connection: Connector DIN43650
- ❖ Operating Temperature Range: -20 to +85 degree C
- ❖ Mechanical Connection: G 1/2" thread

### Application :

- ❖ For Air & Water Pressure Measurement



## Digital Pressure Transmitter with switching outputs

### Specification :

- ❖ Range : 0 to 10 bar
- ❖ 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
- ❖ 3600 points data logger
- ❖ Configuration very easy and can done through mobile application

**Application :** Compressed Airline / Utility



## Pendulum Level Indicators

### Specification :

- ❖ Rod length : Upto 2000 mm
- ❖ Product density : 0,3 t/m<sup>3</sup> – 3 t/m<sup>3</sup>
- ❖ 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 Control in a Coal Bunker



## Rotating Paddle Level Switch

### Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-65/ 68
- ❖ Max temperature 80 Deg 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 Level



## Vibrating Fork Level Switch

### Specification :

- ❖ Vibrating Fork Level Switch for Solids & Powders
- ❖ Enclosure: Aluminium Non-Hazardous IP-67/68
- ❖ Process Temperature: 80 Degrees C
- ❖ Sensing Surface Material: SS-316
- ❖ Sensor Extension Material: SS-304
- ❖ Process connection: Threaded 1 1/2" BSP
- ❖ Process Connection Material: SS-304
- ❖ Integral / Remote Electronics Universal Power Supply 15 to 80 VDC & 15 to 260 VAC 50/60Hz, 1-DPDT potential free relay contact output 5 A each @ 24VDC or 220VAC
- ❖ Fork Length : 150 mm
- ❖ Probe Length : 200 mm (other on request)

**Application :** Dust Hopper Level Measurement



## 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
- ❖ Process Connection Material : SS 304
- ❖ EIUD : Mains: 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
- ❖ L500 : Probe Length: 500 mm (other on request)

**Application :** Coal Bunker Level Measurement



## Conductivity Level Switch

### Specification :

- ❖ Enclosure : Aluminium Non-Hazardous IP-67/68
- ❖ Sensor type : Rigid rod (PTFE insulated)
- ❖ Material temperature : max 80°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
- ❖ Reference probe length : 500mm high level : 100mm, low level : 400 mm

**Application :** Scrubber Liquid Level Measurement



## 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 / TDS Meter

### Specification :

- ❖ Measuring range : 0  $\mu$ S/cm – 15000  $\mu$ S/cm
- ❖ Output signal : Digital PNP or analogue output 4-20 mA
- ❖ Protection category : IP68
- ❖ CIP- / SIP cleaning : 0...+150°C (30 min)
- ❖ Accuracy : 5% of measurement value
- ❖ Integrated temperature compensation
- ❖ Response time <0.5s
- ❖ Supply voltage  $U_b = 24\text{ V} \pm 20\%$  (18...32 VDC)

### Application :

- ❖ Boiler feed water



## Oxygen Probe

### Specification :

- ❖ Output 0 to 1200 mv
- ❖ Accuracy  $\pm 2\text{ mV}$  in normal operating range
- ❖ Response time Less than 1 second
- ❖ Thermocouple R, S
- ❖ Operating temperature From 600°C (1100°F) to 1700°C (3100°F)
- ❖ Mechanical shock Resists mild mechanical shock. Handle carefully
- ❖ Available lengths 300mm to 1100mm
- ❖ Reference air Uncontaminated dry air at maximum rate of 1-6 l/h
- ❖ External diameter 15 mm



## Oxygen Sensor Probe Converter

### Specification :

- ❖ Safety Class: IP 40
- ❖ Power supply: 24V DC (+20%/-20%)
- ❖ Power consumption: app. 1VA
- ❖ Area of operation: 0°C...+70°C
- ❖ Input resistance: > 10 MOhm
- ❖ Output signal: 4...20mA DC
- ❖ Input signal: 0...1.5V DC optional: see table No.1
- ❖ Burden: max. 500 Ohm
- ❖ Galvanical separation: The input signal is galvanically separated from the output signal and the power supply
- ❖ Isolation tension: >1kV DC
- ❖ Front panel: LED - GREEN
- ❖ LED is illuminated = power supply ok



## pH / ORP 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 :

- ❖ Boiler feed water
- ❖ Scrubber System
- ❖ FGD System

## 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  $\text{mg}/\text{m}^3$  dust, max. measuring range 0...250  $\text{mg}/\text{m}^3$  dust
- ❖ Exhaust gas temperature : max. 280 °C
- ❖ Flow velocity : min. 5 m/s
- ❖ Protection degree : IP 65
- ❖ Dimensions : 130 mm x 160 mm x 90 mm (W x H x D)
- ❖ 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
- ❖ Exhaust gas temperature : max. 280°C
- ❖ Process connection : 1" Triclamp acc. to DIN 32676 (Contained within the scope of the delivery, material 1.4301)
- ❖ USB interface cable + software (from WIN7 onwards) for parameterization



### Application :

- ❖ Dust Concentration Measurement of Exhaust Gas in Stack

## 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  $\text{mg}/\text{m}^3$  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

## 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

## Portable Digital Manometer + Air Velocity Meter

### Specification :

- ❖ Range :  $\pm 2\text{ kPa}$  ( $\pm 200\text{ mmWC}$ )
- ❖ 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:  $\pm 1$  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



## 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 – 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 :

- ❖ Fan & Bearing Status ❖ Pump ❖ Motor