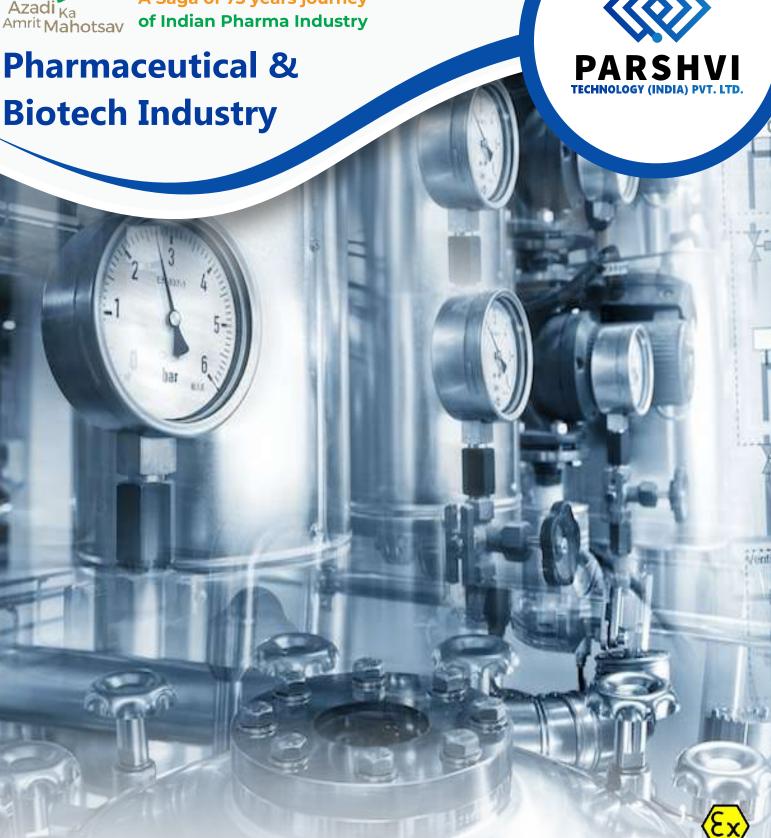


A Saga of 75 years journey







and Flame Proof Version.

**Note: All Sensors Available in ATEX** 

Phone: +91-7069004227, 8128705212 E-mail: info@parshvitechnology.com https://www.parshvitechnology.com

### **RTD Probes & Temperature Transmitter**

## Model: RTD Probes

## Specification:

# RTD Probes

- Pt100/ Pt1000
- Process Connection : Triclover & Thread
- Dia: 6 mm
- Length: up to 100 mm. (Other on Request)
- Weather proof Aluminium Dia. Head IP 65

## **Temperature Transmitter (Make: Pixsys)**

- Programming: Wireless with Mobile Application (No wiring required)
- ❖ Input: RTD (PT100/NI100/PT1000)
- Output: 4...20mA Loop Powered
- Power supply : operating range 6-32 Vdc
- Connection : Screw pinsFixing : On DIN/B head
- According to: CE, EN 61000-6-4, EN 61000-6-2, UL 61010-1
- 3600 Point Data Logging

Application: Hygienic/ Utility Process

## **Surface Temperature Sensor**

#### Model: TEPK (Make: HK Instruments)

#### Specification:

- ❖ Measuring range :-20 ... +80 °C
- Materials : Probe : Zinc casting
- ❖ Cable : PVC (LIYY 2 x 0.14)
- ❖ Probe dimensions : 41.2 x 14.9 x 6.5 mm
- Cable length: 2.0 m (other on request)
- Protection class: IP54

# Application

Used to sense the liquid temperature in pipes in HVAC systems

## **Infrared Temperature Sensor**

## Model: PyroMini (Make: Calex)

### **Specification:**

- High-ambient sensing heads withstand up to 120°C
- Field of view optics: 20:1
- Temperature range: 0 to 250°C (other on request)
- Output: 4-20 mA, 2 wire
- Without display
- Cable length: 3 meter

**Application:** Autocoater



## **Differential Pressure Indicator (Battery-Operated)**

## **Specification:**

- ❖ Range: 0 5000
- Dimensions: 145 mm Ø
- Easy to read LCD display
   Differential procesure displayed
- Differential pressure displayed in Pa
- ❖ Filter contamination level displayed in %
- Limit displayed in Pa
- Measuring range displayed
- Flashing red light when set limit is exceeded
- Power supply: 2 "AA" batteries 1.5 V which last for at least 3 years

## **Digital Differential Pressure Gauge Cum Transmitter**

## Specification:

- ❖ Range <u>+</u>150 Pa
- Large LCD display
- Differential pressure displayed in Pa
- Limit displayed in Pa
- Flashing red light when below the set limit
- Programmable limit, range, signal range of the analog output
- Power supply : 24 V AC/24 V DC
- Available in two built-in and one surface mounted versions

# Autoclave Chamber & Load Temperature Probe

#### **Specification:**

- Available in PT100 RTD (Class A, AA as per IEC 60751:2008, and 1/10 DIN)
- All 316 stainless steel construction.
- Double lock 316 stainless conduit to protect the probe whilst inside the autoclave, and during unloading/unloading.
- Manufacturing process designed to ensure probe is sealed against moisture ingress.
- Silicone insulated lead insulation FDA approved (21CFR 177 2600).
- Steel tailpiece (chamber entry tube) to ensure a good seal through the autoclave wall.
   Available with a range of fittings for efficient sealing.



For Temperature Measurements in Sterilizers





## Diaphragm Seal Pressure Gauges

## Make : Afriso Specification :

- Glycerin Filling (99.5 %)
- Measuring system fully welded to housing
- Extremely robust design
- Can be used in case of heavy vibrations and high, dynamic pressure loads
- \* Tightness-tested with helium
- Suitable for corrosive environments.
- Diaphragm Welded to upper body, no dead space
- ❖ Surface roughness R<sub>A</sub>≤ 0.8 μm
- Connection Stainless steel 316 TC end /316 L, bottom or bottom back
- Filling liquid silicone oil
- ❖ 3-A-certified in conjunction with Bourdon tube pressure gauge RF 63/100
- All materials FDA-listed
- SIP/CIP enabled
- ❖ NovAseptic®-compatible (1" up to 2½")

### **Application**

- For mounting to Bourdon tube pressure gauges, pressure transducers or pressure switches. For viscous, perishable or hot media.
- Food and beverages industry
- Pharmaceutical industry
- Biotechnology Fermenter Process

## **Gas Pressure Switch**

Model: 901P (Make: Beck GmbH)

## Specification:

- Pressure Range: 5 to 500 mbar (as on requirement)
- Max. operating pressure: 0.5/1 bar
- Diaphragm material: NBR
- riangle Process connection : 1/4", BSP thread
- Material : Brass
- Accessories : IP65 cover cap

## Application:

- Monitoring the Overpressure of Combustible Gases
- Gas Burner, Boiler Pressure

## **Air Differential Pressure Switch**

Model: 930.8x (Make: Beck GmbH)

## ${\bf Specification:}$

- Pressure range: 20 5000 Pa
- ❖ Switch type : SPDT (1 NO + 1 NC)
- Protection standard : IP54
  Temperature range : -20°C to +85°C
- Hose connection with 6 mm (OD)

## Application :

- AHU Filter Status
- ❖ Fan, Blower & Filter Status





#### **Hygienic Pressure Transmitter**

# Model: TFP310 (Make: Trumen) Specification:

- Piezoresistive pressure sensor design
- Measuring ranges: -1 bar to 40 bar
- ❖ Output: 4...20mA, 0...10V, 0...5V and others
- Accuracy: ±0.25%FSO or ± 0.5%FSO
- Calibrated and temperature compensated
- Flush diaphragm construction
- Variety of pressure & electrical connections
- Operating Temperature Range: -20 to 150°C

#### Application:

Hygienic Process

## **Draft Pressure Transmitter of ID/FD Fan**

## Model: 985M (Make: Beck GmbH) 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: ≤ ±0.5% FS, min. ±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

## **Digital Differential Pressure Transmitter**

## Model: 985M (Make: Beck GmbH)

#### **Specification**:

Range : -100 Pa and 1 bar

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

- Pressure Monitoring in Sterilization Tunnel Chamber
- Bag Filter Status

## **Digital Differential Pressure Transmitter with 2 relays**

## Model: 990M (Make: Beck GmbH)

## **Specification:**

\* Range : 0 to 2.5 bar

- Pressure unit : mmWC, Pa, mbar
- Power Supply : screw terminals 24 VAC/VDC
- Output: 4 ... 20 mA or 0 ... 10 V, 3-wire
- Switching output: 2 relays with 50VAC/5A (S1) and 250VAC/5A (S2) switching capability
- Display : Red 7-segment LED display, 4-figure
- Accuracy : ≤ ± 1% of FS
- IP65 SS/ MS enclosure with process connection: 2 Hose connection with 4 mm outer diameter

## Application: AHU/ HEPA Filter/ Scrubber/ De-Duster

Bag Filter Pressure Monitoring





Model: TFP 40s (Make: Trumen)

## **Specification:**

- Measuring ranges from 100 mbar to 600 bar
- Absolute, gauge and sealed gauge
- ❖ Accuracy: ±0.25%FSO or ± 0.5%FSO
- Calibrated and temperature compensated
- Stainless steel construction
- Piezoresistive pressure sensor design
- Variety of pressure & electrical connections
- \* Output 4...20mA, 0...10V, 0...5V and others

#### Application:

- Process Control Systems/ Utility
- \* Refrigeration and HVAC Controls
- Pumps and Compressors

## Air Differential Pressure Transmitter

## Model: 984 A (Make: Beck GmbH)

#### Specification:

❖ Range : -100 Pa ..... 500 mbar

- Supply voltage: 18 ... 30 VAC / VDC
- ❖ Output: 4 ... 20 mA or 0 ... 10 V, 3 wire
- With switching output
- Linearity: ≤ ±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**

- Measurement of Constant Pressure in VAV
- Dynamic Filter and Ventilator Monitoring
- Monitoring & Controlling of Air Filters & Fan (Blower)
- Duct Static Pressure Monitoring

#### **Differential Pressure Transmitter**

#### Model: DPT-Priima (Make: HK Instruments)

# Specification:

- Range: ±25, ±50, ±100, ±500 0...25, 0...50, 0...250, 0...1000 (selectable via jumper)
- High accuracy: 0.4% from applied pressure
- Automatic zero point calibration
- Span point calibration (Optional)
- Measuring units: Pa, kPa, mbar, inchWC, mmWC, psi
- ❖ Supply voltage : 24 VDC ±10 % / 24 VAC ±10 %
- Output signals (3-wire): 0/2...10 VDC 4...20 mA
- Operating temperature : -5...50 °C
- Response time: 0.4 / 8 s
- Protection standard : IP54

**Application:** Monitoring Pressure in Cleanrooms

## **Differential Pressure Transmitter**

## Model: PS17 (Make: Halstrup Walcher) Specification:

- Robust ABS housing with protection class IP67 for mounting on top-hat rails or a wall (with just 2 screws)
- $\ \ \, \ \ \,$  3 ½ digits LCD display (optional) with 2-wire, 4 to 20 mA output signal
- Comes with either a defined measurement range or with the option of alternating between 4 measurement ranges
- ❖ Adjustable output signal 0/2 ... 10 V or 0/4 ... 20 mA
- Adjustable output signal attenuation of up to 10 s
- Zero-point calibration via an external voltage signal
- Lowers maintenance requirements
- Span adjustment via internal pushbutton

## **Application**

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









#### **Differential Pressure Transmitter**

Model: PS27 (Make: Halstrup Walcher)

#### Specification:

- Suitable for top-hat rail mounting and wall surface installation
- Selectable output signal 0/2 .. 10 V, 0/4 .. 20 mA or 0 .. 5 V
- Selectable attenuation of the output signal of up to 4 s (optional)
- Display (optional)
- Zero-point calibration via an external signal reduces maintenance costs

#### Application

- \* Bag Filter Pressure Monitoring
- \* Draft Pressure Monitoring
- \* Fan/ Blower Flow Monitoring



## **Pressure Calibration Device in One with Automated Pressure Generator**

## Model: KAL100/ KAL200 (Make: Halstrup Walcher) Specification:

- High level of accuracy and long-term stability through automatic zero-point calibration
- Simple menu navigation for unit conversion, setting calibration points and setting the measurement range
- Generation of positive and negative differential pressures
- \* Easy to operate and produce calibration curves via USB port and PC

#### **Application**

- In House Calibration Purpose
- In House Calibration of Low Pressure Sensor Like Magnehelic Gauge and DPT







## **Differential Pressure Switch for Liquids**

Model: 908 (Make: Beck GmbH)

#### Specification:

- Range: 40 to 1000 mbar
- Pressure connection: Inner thread G 1/8 of Brass (CuZn40) P1+ / P2-
- Maximum operating pressure: 10 bar
- Switch type: 1 SPDT
- Protection class: IP65
- When the flow or pressure from this fall or rise to an alarm condition.

## Application:

- It Can be Used to Monitor the Filter, Boiler, and Pump Condition and Signal
- For All Applications Where Air, Oil, or Water is to be Monitored
- Running Status of Primary and Secondary Variable Pump

## **Differential Pressure Transmitter for Liquids**

## Model: 988 (Make: Beck GmbH) 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: +/- 0.4% (typ.) / +/- 1.0 (max.)
- Protection class: IP65

#### Application:

- Differential Pressure Measurement Between Supply and Return in Heating Systems
- Secondary Variable Pump Control in Chiller Management
- Cooling Systems for Heating / Air Conditioning

# **High Precision Differential Pressure Transmitter**

# Model: P26 (Make: Halstrup Walcher)

#### **Specification:**

- \* Top-hat rail or wall mounting
- Also ± measurement ranges
- Scalable measurement ranges and units
- Zero-point correction prevents zero-point drift
- Built-in valve provides a high level of over pressure protection
- \* High level of accuracy and long-term stability through automatic zero-point calibration
- \* Easy configuration of the measuring range, analog output, time constants and units via PC or keyboard (optional)
- USB interface (optional)
- Display with keyboard for configuration of the pressure transmitter (optional)
- 2 floating switching relays (optional)
- ❖ Margin of error: ± 0.2 % or ± 0.5 % of max. Value
- Protection class IP 65, with USB: IP 40 /IP20

## **Application**

Sterilization tunnel chamber

## **Differential Pressure Transmitter**

# Model: PIZ (Make: Halstrup Walcher)

#### Specification:

- \* High level of accuracy and long-term stability
- Little zero point drift or hysteresis; largely independent of temperature
- Measurement of positive and negative differential pressures
- LCD display (optional)
- Output signal 4 .. 20 mA
- Factory-adjusted attenuation of the output signal of up to 5 s possible (optional)
- Can be calibrated

**Application:** Isolator

## Portable Digital Manometer + Air Velocity Meter

## Model: EMA 200 (Make: Halstrup-walcher)

## Specification:

- ❖ Range : ± 200 Pa
- ❖ Velocity range : 5 ... 58 m/s
- Display: 3 1/2" Digit, LCD
- Accuracy: ± 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
- MOC : Stainless steel
- Process connection: 6 mm hose

**Application:** Testing and Commissioning Purpose





## **Differential Pressure Gauges**

# Model: DPG (Make: HK Instruments)

## Specification:

- ❖ Accuracy : <± 3% F.S (20 °C), (DPG60 <± 5%; DPG100 <± 4%)
- Zero point adjustment screw: external in the plastic cover
- Mounting:surface mounting or flush mounting
- Mounting position: vertical
- Protection standard : IP65

#### Application

DPG Series Devices are Commonly Used in HVAC/R Systems





### **Liquid Vibrating Fork Level Switch**

## Model: LFV (Make: Trumen)

#### Specification:

- Compact size.
- Universal industrial power supply (15 to 80 VDC & 15 to 260 VAC).
- Low power consumption.
- No calibration required.
- Threaded & Hygienic process connection.
- All liquids from free-flowing to viscosity up-to 10,000cP.
- Process pressure max. 15 bar.
- Process temperature max 200 °C.
- Suitable for side as well as top mounting.
- Minimum and maximum fail safe field selectable.

#### **Application**

- High Low Detection in Silo/ Vessel.
- Flow/ No-Flow Detection in Pipe-Lines.

## **Conductivity Level Switch**

### Model: LWS (Make: Trumen)

#### Specification:

- Enclosure: Aluminium non-Hazardous IP-65/68
- 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

## **Solid Vibrating Fork Level Switch**

## Model: LSV (Make: Trumen)

#### Specification:

- Enclosure: Aluminium non-Hazardous IP-66/68
- Process Temperature : 200°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 : Customize

## **Application**

Level Measurement of Free Flowing Powders and Granules (size max. 10mm).

## **RF Admittance Level Switch**

## Model: LSY (Make: Trumen)

## Specification:

- Enclosure: Aluminium Non-Hazardous IP-65/68
- 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



## **Compact Liquid Vibrating Fork Level Switch**

## Model: LFV 12 (Make: Trumen)

#### Specification:

- ❖ Industrial power supply (15 to 80 VDC or 15 to 260 VAC).
- Low power consumption.
- No calibration required.
- Threaded & Hygienic process connection.
- Suitable for side as well as top mounting.
- ❖ Minimum 1/2" (LFV12) process connections
- High pressure up-to 15 bar
- High Temperature up-to 150 °C available

#### Applications:

- Flow/No-Flow Detection in Pipe-Lines.
- Used as a Full, Empty and Demand Alarm in Fluid Containers, Tanks Containing Liquids of Various Types, Fuel Oil, Lube Oil etc.

#### **Capacitance Level Transmitter**

## Model: TLC (Make: Trumen)

#### **Specification:**

- Compact size.
- Rigid rod/flexible rope versions.
- Wide range industrial dc power supply (15 to 60 VDC).
- Loop powered device (two wire).
- No potentiometers hassle free calibration
- Various customized process connections like Threaded/Flanged/Hygienic etc.
- \* Remote electronics version available on request.
- Process temperature max. 200 °C.
- Process pressure max. 20 bar.
- Suitable for corrosive liquids.
- Suitable for top mounting.

## Application:

\* Free flowing homogeneous liquids Like oil, raw water, WFI, DM/DI water etc.

## **Hydrostatic Continuous Level Transmitter**

## Model: TLH (Make: Trumen)

## **Specification:**

- Compact size.
- Wide range industrial dc power supply (12 to 36 VDC).
- Loop powered device (true-two wire).
- No calibration required.
- Customized process connections
- ❖ Accuracy +/- 0.25% of FS. Suitable for corrosive liquids
- Process pressure max. 200 mH2O
- Process temperature max. 80 °c.

## **Application**

- Pressure Sensor for Hydrostatic Level Measurement at Bore Well, Well etc.
- Deep Submersible Liquid Level Measurements.

## **Ultrasonic Level Transmitter**

## Model: TLU (Make: Trumen)

## Specification:

- Compact Size
- User Friendly menus
- Temperature Compensation
- Two-wire loop-powered
- Simple Installation & Maintenance
- \* RS232, RS485, Modbus
- Various output types High protection class
- Explosion proof type
- LCD display

#### **Applications:**

Sedimentation Tank
Sewage Treatment
FO Tank Level











### pH/ORP/ Conductivity/ DO Analyzer

#### Specification:

- Power supply: 100 to 240 VAC (standard)
- ❖ O/P: 1-4...20 mA & 2-points contact output (standard)
- ❖ 48 x 96 mm, panel mounting type
- Drip-proof/Dust-proof IP66 (for front panel only)
- 2-points Contact output (standard), additional 2 points (optional)
- Proportional control, max. 4 points of relay contact
- Various settings & calibration via software communication (RS-485) (optional)
- Transmission output 2 (optional)

#### Application:

- Scrubber System
- Low Iconic Boiler Feed Water
- Drinking Water Treatment
- ETP

#### NOTE:

- 1. Suitable Electrode/ Sensor will provide along with Transmitter
- 2. We have Multi Channel Systems for all Above Sensors.

## Total Chlorine, Free Chlorine, Chlorine Dioxide, Ozone, or Hydrogen Peroxide Measurement

## **Make: Kuntze Instrument** Specification:

- Automatic cleaning by ASR® possible
- Low maintenance due to gel filling
- Stable zeropoint
- High quality Zirkon® junction for reliable measurement results
- Max. Pressure: < 10 bar at 20 °C</p>
- ❖ Temperature: -5...+70 °C
- Electrode Material: 2 Gold rings
- Process Connection: M12 Plug
- Connect with the Kuntze Cloud Connect® service
- PID 3-point controller & On/off Controlling
- Output: 2 x 0/4 .. 20 mA (scaleable, galvanically isolated)
- Output : 2 relays

## **Measuring Parameter**

- Free Chlorine: Up to 1000 μg/l; up to 5,00; 10,00; 20,00 mg/l
- Chlorine Dioxide: Up to 1000 µg/l; up to 5,00; 10,00; 20,00 mg/l
- \* Ozone : Up to 1000 μg/l ; up to 5,00 ; 10,00 mg/l
- Hydrogen Peroxide: Up to 30,00 mg/l
- Total Chlorine : Up 0-1000 μg/l ; 5,00 ; 10,00 ; 20,00 mg/l

# Application:

Drinking Water
Process Water Waste Water Treatment

## pH Electrode

## Make: Kuntze Specification:

- High alkali high temperature glass
- Measuring range pH 0.. 14
- Very small alkaline error
- ❖ Suitable for temperatures up to 135 °C (275 °F)
- Long service life due to refillable reference electrode
- \* High quality Zirkon junction for reliable measurement results
- Dirt-repellent and corrosion resistant PTFE junction Integrated temperature sensor
- Process Connection: Vario pin (PG 13.5)
- \* Reference System: Ag / AgCl / Solid electrolyte
- ❖ Max. Pressure : < 10 bar

#### Application:

- Scrubber System Low Iconic Boiler Feed Water
- Drinking Water Treatment ETP Fermentation Process











# **Solid Flow Monitor (BBD Sensor)**

Power supply : 110 V / 230 VAC

## Model: PFM 13C (Make: Dr. Födisch AG) 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

**Cell Growth Measurement Transmitter (Bio Mass Sensor)** 

Model: EXcell 241/231 (Make: Exner)

Configuration using EXpert software

Can be used in small fermenters

and the Production Process

Monitoring of Fermentation Processes

Protection class IP68

Filter Monitoring

Specification:

Application

Resistant sapphire window

Hygienic design (CIP/SIP-compatible & autoclavable)

AU, OD, EBC, FAU, mg/l or customer-specific unit (CDU)

Measurement and Monitoring of Cell Growth

**Dust Measuring Device - QAL1 Certified** 

Model: PFM20 (Make: Dr. Födisch)

Probe rod length: 500 mm

Flow velocity : min. 5 m/s

Protection degree : IP65

Compact device with aluminum housing

Exhaust gas temperature : max. 280 °C

(e.g. yeast or mammalian cells) in the Laboratory

Determination of the Optimal Time for Cell Harvesting

Measuring range of dust: lowest certificated range 0 -7.5

mg/m³ dust, max. measuring range 0...250 mg/m³ dust

❖ Analog input: 1 x 4...20 mA for external velocity v [m/s]

Process connection: welding sleeve with Tri-Clamp fastener

Analog output: 4 ... 20 mA, electrically isolated

**Application:** Stack Dust Emissions Measurement

Digital outputs: 4 potential free contacts for failure

Colour-independent Concentration Measurement of Microorganisms

(e.g. determination of Bacteria or Algae Concentrations, Particularly Microalgae)

Establishment of Controlled Systems for Cell Density, Feed or Dilution Rates

OPL available in 5 / 10 / 20 mm and various shaft lengths

Integrated digital transmitter (logarithmic amplifier)

**Specification:** 

Housing: IP 65, protection class 1

Application: Broken Bag Leak Detector/FBD

## **Duct Smoke Detector**

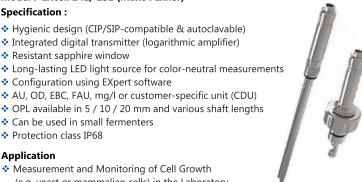
## Model: KRM Specification:

- ❖ VdS certification (G210059)
- Patented single tube air sampling system
- Contamination display in% and signalling at 100%
- Electronic air flow control
- \* Remote reset option via terminals
- Long service life, low contamination
- Modbus interface (KRM-2-MOD only)
- \* Alarm indication with red LED combined with reset button
- Digital contamination display on 2-digit LED segment display
- Maintenance and power supply indication via LED
- ❖ Power supply 24 V AC/DC or 230 V AC ± 10%











### Air Velocity Transmitter with S - Type Pitot Tube

Model: 985V (Make: Beck GmbH)

#### 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

## **Air Flow & Velocity Transmitter**

## Model: DPT Flow+ FloXact Series (Make: HK Instruments)

FloXact-R160

## Specification:

- Range: 0 ... 1000 Pa
- Multiple field selectable measurement
- Measuring Units:
  - Volume flow: m3/s, m3/h, cfm, l/s
  - Velocity: m/s, ft./min
  - Pressure : Pa, inWC, mmWC, kPa, mbar, psi
- With Autozero function
- Supply Voltage: 24 VAC or VDC, ±10 %
- Output: 4 ... 20 mA or 0 ... 10 V, 3-wire
- Accuracy (from applied pressure): 1%
- Protection standard : IP54
- Display : 2-line LCD display
- Line 1 : Volume or velocity measurement
- Line 2 : Pressure measurement
- Length: 100 mm to 450 mm

## Application:

- Air Flow Measurement in DHS / Autocoater
- In-duct air flow monitoring
- Measure and monitor air flow across centrifugalfans

## **Air Velocity Transmitter**

# Model: AVT (Make: HK Instruments)

# Specification:

- \* Range: 0 to 2/0 to 10/0 to 20m/s (selectable via jumper)
- ❖ Output: 0-10V or 4-20mA
- Probe : Adjustable immersion length 50...180 mm, mounting flange included
- Display Optional
- Field adjustable relay (Optional)

#### **Application**

- In-Duct Air Flow and Velocity Monitoring
- VAV Applications

## **Humidity & Temperature Transmitter**

## Model: KLK100 (Make: HK Instruments)

# **Specification:**

- Duct + Wall Mounting
- Power supply : 24 Vac/dc, < 1 VA</p>
- Accuracy: ±2 %rH
- Modbus Communication (optional)
- Humidity measurement range: 0...100 %rH Humidity measurement accuracy: ±2 %rH
- Temperature measurement range: -50...50 °C
- Temperature measurement accuracy: ±0.5 °C Humidity output 0...10 Vdc, 2 mA / 4...20 mA < 600 Ω</p>
- Temperature output 0...10 Vdc, 2 mA / 4...20 mA < 600 Ω</p>
- IP protection class: IP54 Ambient temperature:-50...50 °C
- Mounting: with flange, probe depth adjustable < 150 mm</p>

## **Cleanroom Indicator**

## Model: DPT-CR-MOD (Make: HK Instruments)

#### Specification:

- Input terminal: Humidity & Temperature
- MODBUS Communication
- ❖ Measurement range:-250...2500 Pa
- Accuracy (from applied pressure):
  - ❖ Pressure < 125 Pa = 1 % + ±2 Pa</p>
  - ❖ Pressure > 125 Pa = 1 % + ±1 Pa
- Input accuracy:
  - ❖ Temperature : ±0.25 °C typical @ 25 °C
  - Humidity: ±0.5 % rH typical @ 25 °C
- Measuring units: Pa, mbar, inchWC, mmWC, psi (Selectable via menu)
- Response time: 1...20 s selectable via menu



## **Indoor AIR Quality Transmitter/ PM (Particulate Matter)**

## Model: Siro-MOD (Make: HK Instruments)

#### Specification:

- Measurement parameter Co2, VOC, PM, Humidity, Temperature
- Several options for indoor air quality measurements (CO2, VOC, PM, rH, T)
- Field configurable outputs for selected measurements
- ❖ Output signal 1-4:0...10 V (optional 2...10 V / 0...5 V, display or configuration tool required) (Optional 4...20 mA)
- Optional LCD-display and buttons
- Communication: RS-485 Modbus (RTU)
- Protection standard : IP20
- Calibration (Co2): Automatic self-calibration, ABC LogicTM
- Supply voltage: 24 VDC/VAC ±10 %
- Linear to selected measurement (CO2, VOC, PM, rH or Temp)
- Operating temperature : 0...50 °C

## Application

- Indoor Air Quality in Offices, Public Spaces, Meeting Rooms
- CO2 and VOC Concentration to Regulate Demand-Controlled Ventilation and to Keep the IAQ in a Good Level
- PM Concentration to Measure the Size and Amount of Particulate in the IAQ

## **Digital Process Indicator**

### Model: JIR (Make: Shinko)

## 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

## PID Controller

## Model: BCS Series (Make: Shinko) Specification:

- Convenient Initial setting mode!
- AT on startup function!
- Simplified Program control!
- Simplified converter function! A variety of Event Input/Output functions
- Large, Easy-to-view, 5-digit PV, SV Displays:
- Compact, 60 mm-deep control panel interior!
- Simple settings from a PC
- Drip-proof/Dust-proof IP 66
- Control O/P: Relay contact 1a, Non-contact voltage(for SSR drive), Direct current (As per ordering)
- Multi-input : Total 18 types of input
- Sampling Time 125 ms
- Password Protection for Configuration















#### Recorder

Model: HR-700 (Make: Shinko)

#### Specification:

- Effective recording width 100mm
- Short Depth (150mm) and Light weight (1.5kg)
- Communication function (RS-232C) is provided as standard
- Multi-range input
- Input points Pen/1-point, 2-point/Dot printing/6-point
- Supply voltage 100 to 240V AC 50/60Hz
- Interface RS-232C/1200/2400/4800/9600bps

**Application:** Process Data Recording



## **Signal Isolator & Isolated Barriers**

#### 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:

- Universal Isolated Digital Temperature Transmitter
- Digital Temperature Switch
- Universal Signal Isolator





## **Vibration Monitoring Sensor**

# Model: HE050 (Make: Hauber Electronik)

### 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

Application: Fan & Blower Vibration Measurement



## **Positioning System**

## Model: PSE 30x-8 (Make: Halstrup Walcher) Specification:

## Space-saving, compact design

- Galvanically separated supply voltages for control and performance electronics
- Durable FC-motor
- Extremely accurate positioning due to measurement of the position at the output side
- Easy and low-cost mounting via hollow shaft
- Bus interfaces simplify start-up and wiring complexity
- Address may be set using the bus or an address switch (not for IO-Link)
- Baud rate set via switch
- Status messages retrievable via bus

## **Application**

- Used in Vial Filling Machine/ Vial Capping Machine for
- Cap Vibrating Bowl Height Regulation
- Capping head Height Regulation
- Stopper Vibrating Bowl Height Regulation
- Capping In feed Auger Height Regulation



#### **Universal Temperature Transmitter**

## Model: Temperature Transmitter (Make: Pixsys) **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, humidity 30..90% (non condensing)
- Galvanic isolation
- 3600 points data logger
- DIN Clip optional



## **Exner Retractable Fittings**

## Model: EXstatic 310, EXstatic 311 (Make: Exner) Specification:

- Designed according to hygienic criteria
- Stainless steel AISI 316L / 1.4404
- EPDM sealings with FDA and USP VI approval
- ❖ Up to 10 bar and 140 °C
- Protection cap for cable connection
- Process connections for hygiene applications
- Static probe housing with Ingold connection (DN25)
- Static probe housing with clamp connection
- Excellent stainless steel surface qualities (up to Ra < 0.37 μm)
- Available with or without protection cage
- Suitable for sensors with 120 mm length and PG13.5 connection

#### Application:

- Pharmaceutical
- ❖ For all Kind of Ø12/120mm Sensors with Thread PG13.5 (pH-glass- and ISFET Sensors, Conductivity- or Temperature Sensors, Turbidity and Other Optical Sensors)

## **Special Drive for Gate Opening and Closing**

## Model: PSE200 (Make: Halstrup Walcher)

## Specification:

- \* Release-input (optional) and position report ensure high level of functional security
- Variable positioning range up to 50 rotations
- Position : Horizontal construction
- Protection class: IP 55
- Position feedback: 0.. 10 V (floating contact "position reached")
- Output shaft : 12 mm solid shaft with flattening
- Positioning accuracy: 2 % of positioning range
- ❖ Power supply : 24 VDC

#### Application:

Sterilizing Tunnel / DHS

## **IoT Based AHU Management System**

#### **Specification:**

- \* Reduced Load on Chiller
- Upto 12% Energy Efficiency
- Remote Control Operations
- 360 Degree Visibility on AHU Health Enhanced Comfort of occupants







