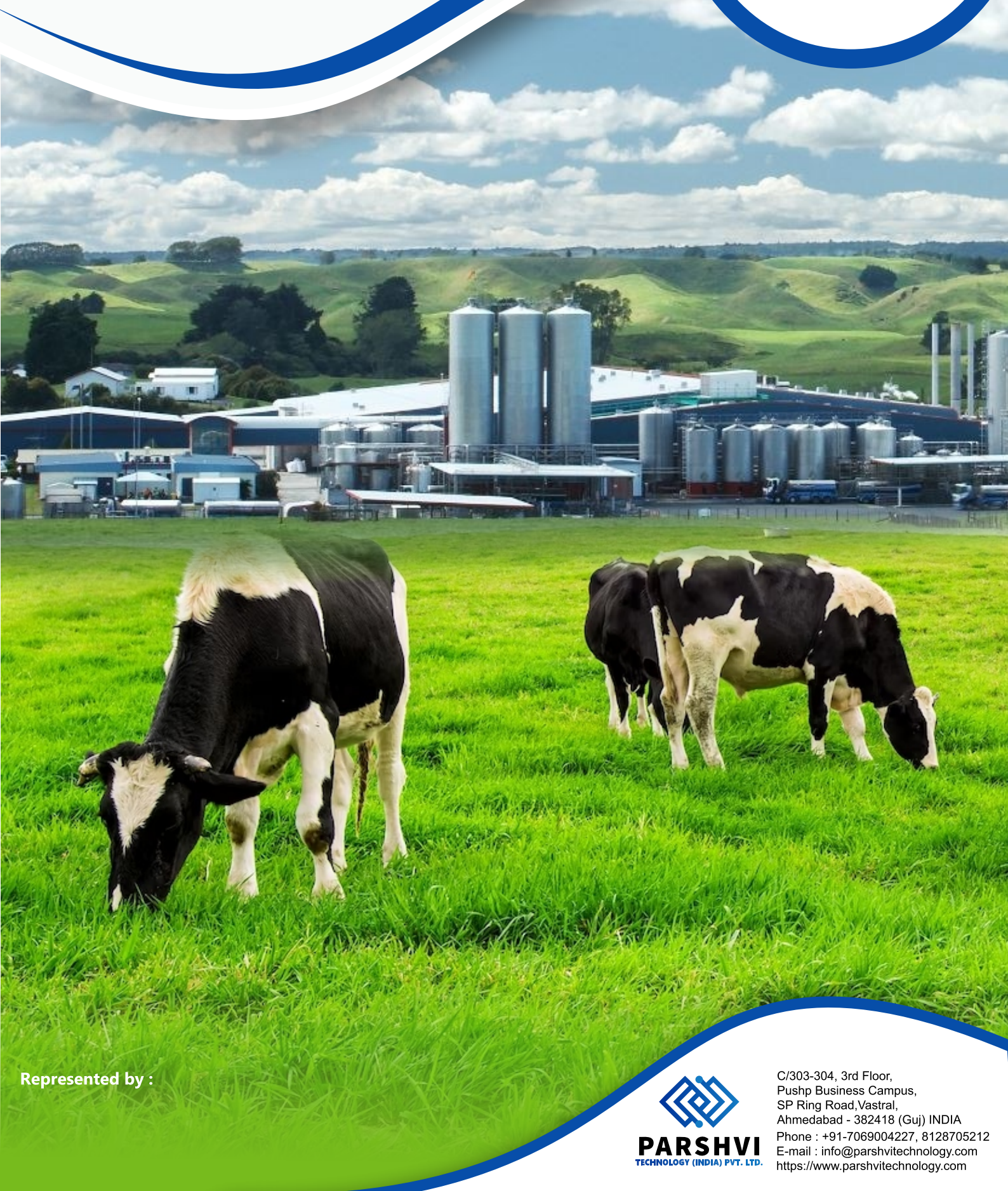


# Dairy, Food & Beverage Industry



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

### Specification : RTD Probes

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

### Temperature Transmitter (Make : Pixsys)

- ❖ Programming : Wireless with Mobile Application
- ❖ Input : RTD (PT100/PT1000)
- ❖ Output : 4...20mA Loop Powered
- ❖ Power supply : operating range 6-32 Vdc
- ❖ Connection : Screw pins
- ❖ Fixing : On DIN Clip/ B head
- ❖ 3600 points data logger

**Application :** Hygienic Process/ Utility Process



## Infrared Temperature Sensor (Pyrometer)

### Model : PyroCouple (Make : Calex)

#### Specification :

- ❖ Choice of temperature ranges from -20°C to 500°C
- ❖ Durable, robust stainless steel 316 housing
- ❖ Output : 4-20 mA, Type K or J thermocouple, or 0-50 mV
- ❖ Fast response with high stability
- ❖ Sealed to IP65

#### Application :

- ❖ To Measure Chocolate Temperature before the Mould
- ❖ To Measure the Temperature of Toffee Webs as they Leave Cooling Drums
- ❖ Measure the Temperature of Roaster System



## 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 :  $\pm 0.25\%$ FSO or  $\pm 0.5\%$ FSO
- ❖ Calibrated and temperature compensated
- ❖ Flush diaphragm construction
- ❖ Variety of pressure & electrical connections
- ❖ Operating temperature range: -20 to 200 °C

**Application :** For Hygienic Process



## Pressure Transmitter & Digital Pressure Switch

#### Specification :

- ❖ Measuring ranges from 100mbar to 600bar
- ❖ Absolute, gauge and sealed gauge
- ❖ Accuracy:  $\pm 0.25\%$ FSO or  $\pm 0.5\%$ 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



## Digital Differential Pressure Transmitter

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

#### 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 / Aseptic Packaging Machine

- ❖ DP Measurement at AHU
- ❖ Draft Pressure Measurement of ID/FD Fan



## Adjustable/ Gas / Vacuum Pressure Switch

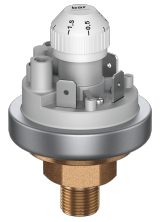
### Model : 901P (Make : Beck GmbH)

#### Specification :

- ❖ Pressure Range : -700 mbar to 12 bar
- ❖ Max. operating pressure : 0.5/ 25 bar
- ❖ Diaphragm material : NBR
- ❖ Process connection : 1/4", BSP thread
- ❖ Material : Brass
- ❖ Accessories : IP65 cover cap

#### Application :

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



## Differential Pressure Transmitter for Liquids

### Model : 988 (Make: Beck GmbH)

#### Specification :

- ❖ Range : 0-2.5, 0-6, 0-10 bar (other 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.) /  $\pm 1.0$  (max.)
- ❖ Protection class : IP65

#### Application :

- ❖ Secondary Variable Pump Control in Chiller Management
- ❖ Cooling Systems for Heating / Air Conditioning



## 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" process connections
- ❖ High pressure up-to 15 bar
- ❖ High temperature up-to 150 °C available

#### Applications :

- ❖ Used as a Full, Empty & Demand Alarm in Fluid Containers, Tanks Containing Liquids of Various Types, Including Milk & Milk Products, Edible Oil, Fuel Oil, Lube Oil, Brewery etc.



## Conductivity Level Switch

### Model : LWS (Make : Trumen)

#### Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-65/ 68
- ❖ Sensor type : Rigid rod / rope (PTFE insulated)
- ❖ Material temperature : max 200 °c.
- ❖ Sensor MOC : SS304
- ❖ Customized process connections
- ❖ Power supply : 12-260 VAC/12-60 VDC
- ❖ Output : 1 DPDT relay
- ❖ Customize probe length available

#### Application :

- ❖ Level Measurement for Chemical Storage Vessel in CIP Process



## 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
- ❖ LCD display

#### Applications :

- ❖ Sedimentation Tank
- ❖ Sewage Treatment
- ❖ FO Tank Level



## Capacitance Level Transmitter

**Model : TLC (Make : Trumen)**

### Specification :

- ❖ Compact size
- ❖ Rigid rod/flexible rope versions
- ❖ Wide range industrial dc power supply (15 - 60 VDC)
- ❖ Loop powered device (two wire)
- ❖ No potentiometers – hassle free calibration
- ❖ Various customized process connections available
- ❖ Remote electronics version available on request
- ❖ Process temperature max. 200 °C
- ❖ Suitable for corrosive liquids

### Application :

- ❖ Level Measurement for Chemical Storage Vessel in CIP Process



## Hydrostatic Continuous Level Transmitter

**Model : TLH (Make : Trumen)**

### Specification :

- ❖ Compact size
- ❖ Wide range industrial dc power supply (12 to 36 VDC).
- ❖ Loop powered device (2 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 ❖ Ice Silo Level Measurement



## Vibrating Fork Level Switch for Solid

**Model : LSV (Make: TRUMEN)**

### Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-66/ 68
- ❖ Process Temperature : upto 200°C
- ❖ Sensing surface material : SS-316
- ❖ Process Connection : Customize
- ❖ Process Connection material : SS-316
- ❖ 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 : 125 - 2000 mm (other on request)

### Application

- ❖ Level Measurement of Free Flowing Powders and Granules (size max. 10mm) in Hopper, Silo & Vessel



## Milk Silo Level Transmitter

**Model : PiezoSwitch PS (Make : Hengesbach)**

### Specification :

- ❖ Output signal 4...20mA, 2 wire
- ❖ Max. 2 PNP-switching outputs, 24V DC, max. 50mA,
- ❖ With indicator for switching status
- ❖ LED-display for measurement reading
- ❖ Easy configuration and operating modus with 3 buttons
- ❖ Menu-driven configuration on site
- ❖ Free programmable measuring Ranges from -1/0 up to 30bar, TurnDown 4
- ❖ Process connections G1" elastomer-free sealing cone, turnable or EHEDG
- ❖ EL-ASEPTIC certified modular system PZM, with more than 20 different process connection adapters and weld-in sockets
- ❖ Process Temperature -40°C up to 125°C/ 140°C 1h during CIP & SIP-processes

### Application :

- ❖ Level measurements in tanks with high pressure or vacuum load & low filling height
- ❖ Highly precise measurement of content Pressurized Tanks / Vacuum Measurements with high temperatures



## Liquid Analyzer - pH/ ORP/ Optical Dissolve Oxygen Sensor

**Model : AER Series**

### 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 communication (RS-485) (optional)

### Application :

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

**Note : Suitable Electrode will provide along with Transmitter**



## 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 ❖ Temperature: -5...+70 °C
- ❖ Electrode Material: 2 Gold rings ❖ Process Connection: M12 Plug

### Measuring Parameter

- ❖ Total Chlorine, Free Chlorine & 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

### Application :

- ❖ Drinking Water ❖ Process Water ❖ Waste Water Treatment



## Inline Optical Brix Monitor

**Model : DCM-20 (Make : KxS Technologies)**

### Specification :

- ❖ Refractive Index range: Full range, nD=1.3200...1.5300 (= definition to 0...100%wt)
- ❖ Output units :Brix/ Conc% / g/cm3 / refractive index unit RIU
- ❖ Measurement precision : ±0.025 Brix/%wt ❖ Accuracy : ±0.0002 RIU
- ❖ Speed of response : 1 sec. undamped
- ❖ Temperature compensation: Automatic, individual zero point calibration
- ❖ Hygienic design : 3-A Sanitary Standard 46-04 and EHEDG Type EL Class I certified.
- ❖ Process connection : 1.5" & 2.5" sanitary connection, Varinline® and APV tank bottom flange
- ❖ Process pressure : 9-55 bar
- ❖ Process temperature : -40°C ...100°C continuous process temperature Withstands 130 °C CIP and SIP sequences
- ❖ Sensor protection class : IP67, Nema 4X
- ❖ Power Supply : 24 VDC
- ❖ Output : 2 pcs independent 4-20 mA user configurable outputs

### Application :

- ❖ Dairy evaporators and Spray dryers
- ❖ Whey protein concentrate membrane filtration systems
- ❖ Lactose Sugar concentration measurement



## Compact Turbidity sensors

**Model : EXspect & Explore (Make : Exner)**

### Specification :

- ❖ Compact design with integrated amplifier and touch display
- ❖ %-turbidity or custom defined unit
- ❖ Durable sapphire lens
- ❖ Hygienic Design, CIP/SIP-capable
- ❖ LED light source guarantees a durable and stable signal
- ❖ Easy parameterization via display or software EXpert

### Application :

- ❖ Precise phase separation ❖ Control of separators
- ❖ Filter monitoring ❖ CIP return line
- ❖ Product/ water push - to save water and milk
- ❖ Monitoring of product changes



## Broken Bag Detector & Stack Loss

**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)/ 0...250 mg/m<sup>3</sup> dust
- ❖ 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

### Application :

- ❖ Broken Bag Leak Detector
- ❖ Stack Powder loss Measurement



## Air Flow & Velocity Transmitter

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

### Specification :

- ❖ Range : 0 ... 1000 Pa
- ❖ Multiple field selectable measurement
- ❖ Measuring Units :
  - ❖ Volume flow : m<sup>3</sup>/s, m<sup>3</sup>/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 Duct

## 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



## Digital Process Indicator

**Model : JIR (Make : Shinko)**

### 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



## DIN Rail Mounted Signal Isolator & Temperature Transmitter

**Model : DCL 33 (Make : Shinko)**

### 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
- ❖ Universal Signal Isolator
- ❖ DIN Rail Mounted Temperature Transmitter

## 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



## Smart Vibration Sensor

**Model : HE050 (Make : HAUBER - Elektronik GmbH)**

### 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 (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

- ❖ Pumps, Centrifuges, Temperature 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 EC-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

