

Dairy, Food & Beverage Industry



PARSHVI[®]
TECHNOLOGY (INDIA) PVT. LTD.



Represented by :



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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
- ❖ Small weld-in sleeve system M12

Temperature Transmitter

- ❖ 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)

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

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 Draft Pressure Transmitter

Specification :

- ❖ Range : ± 5 mmWC/ 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. ± 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 : Aseptic Packaging Machine

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



Capacitive Type Level Switch

Specification :

- ❖ Process connection : G1/2" hygienic
- ❖ Output signal : PNP, NPN or Push-Pull, switchable
- ❖ Response time : <0,2sec
- ❖ Supply voltage : $U_b = 24V$ (12...32VDC)
- ❖ Electrical connection : M12 connector 5pin
- ❖ Process temperature : 0°C...100°C / max 130°C (<1h)
- ❖ Process pressure : max 10 bar
- ❖ LED Indication

Application :

- ❖ Level detection in vessels or pipes
- ❖ Level detection of syrup and fruit concentrate



Compact Liquid Vibrating Fork Level Switch

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

Specification :

- ❖ Electrodes can be shortened independently
- ❖ Medium-affected components are made of stainless steel
- ❖ Material Nr. 1.4404 / HALAR® 3404DA-coating
- ❖ Thread G 1", elastomer-free seal system
- ❖ Protection class IP69K
- ❖ Operating pressure max. 10 bar
- ❖ CIP- / SIP cleaning 140°C, 30 min
- ❖ Permissible substance temperature 0...100°C
- ❖ Stainless steel terminal head material Nr. 1.4305

Application :

- ❖ Level Measurement for Chemical Storage Vessel in CIP Process



Guidedwave Radar Level Transmitter

Specification :

- ❖ Robust design for a longer service life
- ❖ With steel terminal head material Nr. 1.4305
- ❖ Connection: M12 plug-in connection, 5-pole
- ❖ Thread G 1", elastomer-free seal system
- ❖ Supply voltage : 12V DC...30V DC
- ❖ Output signal : 4mA...20mA / 0V...10V
- ❖ Response time : <400 ms
- ❖ Protection class : IP69K
- ❖ Process temperature : -20...+150°C

Application

- ❖ Fill level measurement in vessels



Ultrasonic Level Transmitter

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

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

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

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

Specification :

- ❖ Digital input for zero point adjustment
- ❖ Nominal pressure ranges up to 40 bar
- ❖ Integrated control + indicator display optional
- ❖ Freely adjustable as tank level indicator & linearisation up to 30 support points
- ❖ Very quick compensation of temperature jump
- ❖ Turndown 4:1
- ❖ Accuracy : 0.1 % of adjusted measuring value
- ❖ Protection class up to IP 69 K

Application :

- ❖ High precision hydrostatic level Measurement in vessels



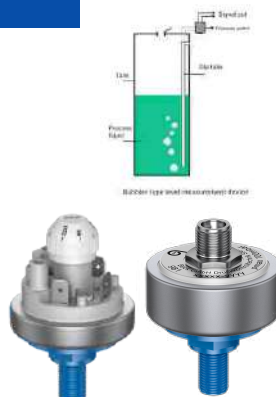
Water Level Switch/ Transmitter

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



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 ±20% (18...32VDC)
- ❖ Output signal : 2x4-20 mA
- ❖ Protection category : IP69K
- ❖ Process Temperature : 20...100°C / 150°C (1h)

Application :

- ❖ Controlling of CIP processes
- ❖ Alkali and acid concentration measurement



Turbidity sensors

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 :

- ❖ CIP return detection of product residues and TS Recovery
- ❖ CIP Return line for Final Rinse Water Recovery
- ❖ Product Transfer lines for Product Loss Recovery
- ❖ Monitoring product inflows/water inflows such as Vapour water, condensate, and cooling water Circuit Return Line
- ❖ Precise Phase Separation ❖ Filter Monitoring ❖ Control of Separators
- ❖ Condensate of whey (COW) water monitoring



Brix Meter

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
- ❖ Automatic Temperature compensation
- ❖ Hygienic design ❖ Process pressure : 9-55 bar
- ❖ Process temperature : -40°C ...100°C continuous & 130 °C CIP and SIP sequences
- ❖ Sensor protection class : IP67, Nema 4X
- ❖ Power Supply : 24 VDC ❖ Output : 2 x 4.....20 mA

Application :

- ❖ Dairy Evaporators and Spray Dryers
- ❖ Whey Protein Concentrate Membrane Filtration Systems
- ❖ Lactose Sugar Concentration Measurement
- ❖ Inline TS Measurement ❖ Sugar Preparation Skid
- ❖ Sodas & soft drinks filling lines and sugar dissolving



Water Quality Monitoring System (pH, Conductivity, Turbidity, Total chlorine, Free Chlorine & Temperature Measurement) with the Cloud Connect

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
- ❖ Electrode Material: 2 Gold rings
- ❖ Process Connection: M12 Plug
- ❖ Connect with the Kuntze Cloud Connect® service

Measuring Parameter

- ❖ pH: 0.. 14.00 pH
- ❖ Conductivity : Up to 2,000, 20,00, 200.0 mS/cm
- ❖ Turbidity 0-10 NTU
- ❖ Free Chlorine : Up to 1000 µg/l ; up to 5,00 ; 10,00 ; 20,00 mg/l
- ❖ Total Chlorine : Up 0-1000 µg/l ; 5,00 ; 10,00 ; 20,00 mg/l

Application :

- ❖ Water Process Engineering



Liquid Analyzer - pH/ ORP 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

Application :

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



Conductivity / TDS Meter

Specification :

- ❖ Measuring range : 0 μ S/cm – 15000 μ 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 V +/- 20% (18...32 VDC)

Application :

- ❖ Water & Waste Water Process Engineering



Broken Bag Detector & Stack Loss Measurement

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...250 mg/m³ 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
- ❖ Bag Filter Condition Monitoring



Air Flow & Velocity Transmitter

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, \pm 10 %
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3-wire
- ❖ Accuracy (from applied pressure) : 1%
- ❖ Protection standard : IP54
- ❖ Display : 2-line LCD display
- ❖ Length : 100 mm to 450 mm

Application :

- ❖ Air Flow Measurement in Duct ❖ Dryer in feed Flow



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)
- ❖ Length : 500 mm ❖ OD : 6 mm
- ❖ Mounting type : cleat or flange

Application : Duct Velocity Measurement



Digital Process Indicator

Specification :

- ❖ 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



PID Controller

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!
- ❖ Drip-proof/Dust-proof IP 66
- ❖ Control O/P : Relay contact 1a, Non-contact voltage (for SSR drive), DC
- ❖ Multi-input : Total 18 types of input
- ❖ Sampling Time 125 ms ❖ Password Protection for Configuration



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 (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



Manually Operated Retractable Probe Housing For pH Electrode

Specification :

- ❖ Material : Stainless steel 1.4404 / 316L
- ❖ Sealing material : EPDM/FDA/USP VI
- ❖ Process Connection : TriClamp 1-1,5" (OD Ø50.5mm)
- ❖ Cleaning Connection : G 1/8" female thread
- ❖ Automatic locking system with indicators for measurement- and service position
- ❖ Automatic safety lock while sensor is removed
- ❖ Drive unit free of maintenance
- ❖ Easy retrofit to pneumatic drive possible

Application :

- ❖ For all kind of Ø12-225mm sensors or Ø12-280mm liquid filled sensors with thread PG13.5
- ❖ Hygienic applications
- ❖ Requirement of sensor replacement under process conditions

