



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

Dairy Food & Beverage Industry

Smart Measurement for safer, Cleaner and more efficient processing



Temperature Probe



Temperature Transmitter



Pressure Transmitter



Level Switch



Level Transmitter



Turbidity Sensor



Conductivity Sensors



Inline Process Refractometer (Brix Meter)

Featuring Advanced process Sensors & Automation for the dairy Industry

Represented by :



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

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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



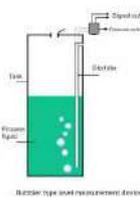
Water Level Switch/ Transmitter

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 : $U_b=24V \pm 20\%$ (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, $n_D=1.3200...1.5300$ (=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



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



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 :

- ❖ Compact device with aluminum housing ❖ Probe rod length : 500 mm
- ❖ Measuring range of dust : lowest certified 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

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, ± 10 %
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3-wire
- ❖ Accuracy (from applied pressure) : 1%
- ❖ 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 : ± 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



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



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: ± 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



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 \varnothing 50.5mm)
- ❖ 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 \varnothing 12-225mm sensors or \varnothing 12-280mm liquid filled sensors with thread PG13.5
- ❖ Hygienic applications
- ❖ Requirement of sensor replacement under process conditions

