Chemical Industry

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PARSHVI
TECHNOLOGY (INDIA) PVT. LTD.

Note : All Sensors Available in ATEX and Flame Proof Version.

Represented by :

PARSHVI
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RTD Probes & Temperature Transmitter

Specification :

RTD Probes
- ❖ Process Connection : Triclover & Thread
- ❖ Dia: 6 mm ❖ Length : Customize
- ❖ Weather proof Aluminium Dia. Head IP 65

Temperature Transmitter (Make : Pixsys)
- ❖ Programming : Wireless with Mobile Application (No wiring required)
- ❖ Input : Thermocouple/ RTD (PT100/ PT1000)
- ❖ Output : 4...20mA Loop Powered
- ❖ Power supply : operating range 6-32 Vdc
- ❖ Fixing : On DIN/B head
- ❖ 3600 Point Data Logging

Application : Hygienic/ Utility Process

Non-Contact 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 : Dryer Outlet Material Temperature ❖ Chemical Reactor

Non-Contact Infrared Temperature Sensor for Multi-Channel Systems

Specification :
- ❖ RS-485 Modbus interface
- ❖ Measures temperatures from -20°C to 1000°C
- ❖ Ambient temperatures of up to 120°C without cooling
- ❖ Compatible with third-party RS-485 Modbus Master devices, or Calex touch screen interface
- ❖ 6-channel temperature display with configuration, alarms and data logging
- ❖ Analogue and alarm relay outputs via optional modules
- ❖ Build larger systems using the PM180's separate Modbus Master and Slave interfaces

Intrinsically Safe Infrared Temperature Sensor

Specification :
- ❖ Temperature range: -20°C to 1000°C
- ❖ ATEX, IECEx and UKEX certified up to Zone 0 (gas) and Zone 20 (dust)
- ❖ Certified for use in Japan
- ❖ 4-20 mA output, two-wire, loop-powered
- ❖ Optional RS-485 network adapter and USB configuration tool
- ❖ Supplied with up to 25 m cable
- ❖ Cable may be extended even further (subject to safety requirements) cable runs could extend all the way back to the control room
- ❖ Stainless steel 316 housing, ideal for offshore applications

Application :
- ❖ Liquid storage and processing ❖ Condition monitoring

Pressure Transmitter & Digital Pressure Switch

Specification :
- ❖ Measuring ranges from 100mbar to 600bar
- ❖ 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

Adjustable/ Gas / Vacuum Pressure Switch

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

Draft Pressure Transmitter

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 : Dryer
- ❖ Draft Pressure Measurement of ID/FD Fan

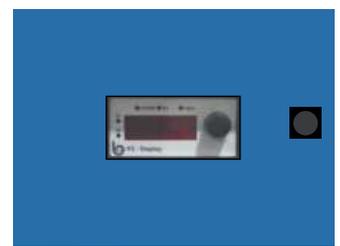## Digital Differential Pressure Transmitter with 2 relays

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) an 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 : Scrubber/ De-Duster
- ❖ Bag Filter Pressure Monitoring

Capacitive Level Switch

Specification :
- ❖ Output signal : PNP, NPN or Push-Pull, switchable with LED Indication
- ❖ Supply voltage : 12...32VDC
- ❖ Electrical connection : M12 x5
- ❖ Process Temp : 0°C...100°C/max,130°C (<1h)
- ❖ Process pressure : max 10bar
- ❖ Process connection: G1/2"
- ❖ Response time : <0.2sec
- ❖ Protection category : IP67 according to DIN EN 60529

Application :
- ❖ Liquid level switch

Membrane/ Boot/ Overflow Level Switch

Specification :
- ❖ Product temperature : -20° C – +200°C
- ❖ Sensitivity : 200 – 500g adjustable
- ❖ Protection : IP65
- ❖ Density of the product : 0,3 t/m3 – 2,5 t/m3
- ❖ Diphagram material : SS/ NBR

Application : Screw Conveyor / Chute Jam Detection
- ❖ Bucket Elevator

Pendulum Level Indicators

Specification :
- ❖ Rod lenght : Upto 2000 mm
- ❖ Product density : 0,3 t/m3 – 3 t/m3
- ❖ 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

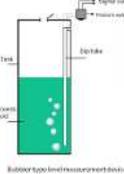**Application :**
- ❖ High Level Control in a Coal Bunker

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

Air Flow Transmitter with Annubar

Specification :
- ❖ Output signal : 4 ... 20 mA
- ❖ Operating voltage : 24 VAC/DC (4-wire)
- ❖ Measurement range : ±50 Pascal
- ❖ Accuracy : ±0.2% FS

Application :
- ❖ Air flow measurement

Portable Digital Manometer + Air Velocity Meter

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

pH Electrode

Specification :
- ❖ High alkali high temperature glass
- ❖ Measuring range pH 0.. 14
- ❖ Very small alkaline error
- ❖ Suitable for temperatures up to 110°C (275 °F)
- ❖ High quality Zirkon junction for reliable measurement results
- ❖ Dirt-repellent and corrosion resistant PTFE junction
- ❖ Integrated temperature sensor : Pt 1000
- ❖ Electrical Connection : Fixed cable 6 m
- ❖ Process Connection : ¾" NPT
- ❖ Reference System: Ag / AgCl / Solid electrolyte
- ❖ Max. Pressure : < 10 bar

Application :
- ❖ pH Control of a Fed Batch Reactor

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

ph/ ORP / Conductivity Meter

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 Iconic Boiler Feed Water
- ❖ ETP

Conductivity Analyser

Specification :
- ❖ Measuring range: 0 µS/cm – 15000 µS/cm
- ❖ Output signal : Digital PNP output or analogue output
- ❖ Response time <0.5s
- ❖ CIP- / SIP cleaning: 0...+150°C (30 min)
- ❖ Accuracy: 5% of measurement value
- ❖ Integrated temperature compensation
- ❖ Protection class IP 68
- ❖ process temperature: 0...+100ºC
- ❖ Probe tip: 316L/1.4404/1.45771
- ❖ Process connection G1/2"

Application :
- ❖ Water Treatment

Chemical Concentration Transmitter

Specification :

- ❖ 2 x analogue output : 4...20mA, IO-link
- ❖ Up to 4 freely stored concentration curves, display in percent
- ❖ display of conductivity, cocentration and temperature
- ❖ very compact and robust version in hygienic design
- ❖ housing made of stainless steel
- ❖ extremely fast response times

Application :

- ❖ Chemical Concentration Measuring in Systems and Processes

Liquid Concentration Transmitter

Specification :

- ❖ Robust performance, high accuracy & consistent measurement results in harsh conditions.
- ❖ All measurement functions are integrated in the sensor - no transmitter required.
- ❖ Special wetted parts available for aggressive process fluids.
- ❖ Certified for hazardous areas with certification for ATEX/IEC Zone 2
- ❖ Refractive Index range: Full range, nD=1.3200...1.5300 (equal by definition to 0...100%wt)
- ❖ Automatic Temperature compensation
- ❖ Sensor protection class: IP67, Nema 4X
- ❖ Speed of response: 1 sec. undamped
- ❖ Power Supply: 24 VDC
- ❖ Process pressure: -1...55 bar
- ❖ Process temperature: -40°C...150°C
- ❖ Output: 2x 4-20 mA and digital (Modbus TCP)
- ❖ Measurement accuracy: ± 0.0002 refractive index unit RIU

Application

- ❖ Alkalies and chlorine (Hydrochloric acid, Caustic soda, Brine, Sulfuric acid)
- ❖ Common chemicals (Ammonium hydroxide, Ammonium nitrate, Ethylene glycol, Formaldehyde, Gelatine, Hydrogen peroxide, Nitric acid, Oleum, Polycarbonates, Resins, Sodium hydroxide, Resins, Urea)
- ❖ Fibers and plastics (Acrylics, Caprolactam, natural and man-made fibers, Fiberglass binders solutions, Nylon salt, Textile finishing, coating and dyeing solutions)
- ❖ Salts and sodium compounds (Brine, Glauber's salt, Sodium carbonate)
- ❖ Other (Ion exchange chromatography: regeneration chemicals of ion exchangers, loading and unloading operations: chemicals interface detection and identification. De-icing preparations manufacturing, spraying and recovery: Ethylene glycol, Propylene glycol. Automotive grade urea solution, AdBlue (AUS32), Diesel exhaust fluid (DEF))

Solid Flow Monitor / BBD Sensor / Stack Dust Monitor

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...1000 mg/m³
- ❖ 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 Dust Monitor

Stack Air Flow Transmitter (QAL1 certified)

Specification :

- ❖ Stack Air Flow Meter (QAL1 certified)
- ❖ Make: SKI GmbH
- ❖ Model: AccuFlo® QAL
- ❖ Measuring principle : Differential pressure water-saturated
- ❖ Gas: Exhaust gas, flue gas, with dust/particles,
- ❖ Measurement range: 2 ... 20 m/s (up to 2 ... 60 m/s)
- ❖ Stack/Duct Diameter: DN 100 ... DN 10000
- ❖ Power supply: 115/230 V AC (Optional 24 V DC)
- ❖ Medium temperature: up to 800°C Higher
- ❖ Temperature on request
- ❖ Material: 1.4571, Hastelloy

Application :
- ❖ Air Flow Measurement in Stack
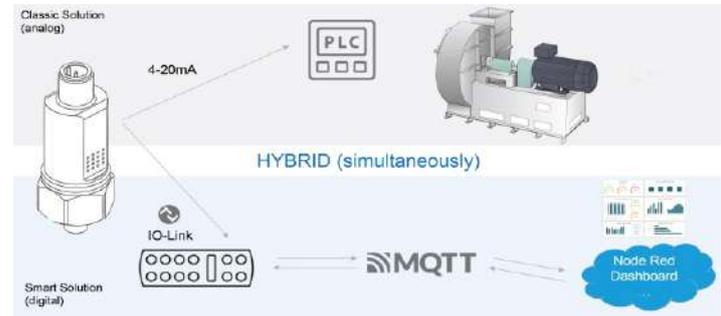
Vibration & Temperature Sensors

Specification :

- ❖ Frequency Range: 10 to 1000 Hz,
- ❖ Measuring Range: 0-16mm/s (Velocity)
- ❖ Temperature range : 0 to 100°C,
- ❖ Supply Voltage : 24VDC,
- ❖ Output : 4 – 20 mA current signal (vibration speed)
- ❖ 4 – 20 mA current signal (temperature)
- ❖ Connection: M8 Screw, Connection: M12 plug,
- ❖ Housing Fastening thread material :
- ❖ M8 x 8 mm; pitch 1.25 mm (standard)
- ❖ Measuring head temp. -40 °C ...+125°C

Smart Vibration Sensors (IO-Link)

- ❖ All measurands are cycled through IO-Link as process data
- ❖ Vibration speed (mm/s, rms)   ❖ Vibration acceleration (g, rms)
- ❖ Vibration acceleration (g, peak)   ❖ Temperature (°C)
- ❖ Bearing status parameter (cresT) 10Hz-10,000Hz
- ❖ Acyclic retrieval of device data and diagnostic data ❖ Maintenance Manager
- ❖ Both outputs can be configured as digital switching outputs
- ❖ Output 2 can be configured as an analog output
- ❖ Frequency range: any can be selected between 1-1,000 Hz**

DIN Rail PID Controller

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

Exner Retractable Fittings

Specification :

- ❖ Robust design, integrated PTFE scraper
- ❖ Extension of sensor-lifetime and reducing of maintenance efforts
- ❖ Automatic safety lock while sensor is removed
- ❖ Plug and play installation, colour- and size-coded connectionsystem
- ❖ Integrated limit switches
- ❖ Usable in ATEX-areas
- ❖ Static probe housing with clamp connection
- ❖ Immersion length up to 90mm
- ❖ Up to 16 bar and 140 °C
- ❖ Stainless steel AISI 316L / 1.4404 or Alloy C22
- ❖ Can be fully automated with pneumatic or electro-pneumaticcontrol units
- ❖ Drive unit free of maintenanc

Application :

- ❖ For all kind of Ø12/120mm sensors with thread PG13.5 (pH-glass- and ISFET sensors, conductivity- or temp sensors, turbidity and other optical sensors)