

Tyre Industry



PARSHVI
TECHNOLOGY (INDIA) PVT. LTD.



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C/303-304, 3rd Floor,
Pushp Business Campus,
SP Ring Road, Vastral,
Ahmedabad - 382418 (Guj) INDIA
Phone : +91-7069004227, 8128705212
E-mail : info@parshvitechnology.com
<https://www.parshvitechnology.com>

Infrared Temperature Sensor (Pyrometer)

Technical Features

- ❖ Temperature range: -20°C to 500°C
- ❖ Fixed emissivity setting: 0.95
- ❖ 4-20 ma, type K or J thermocouple, or 0-50 mv output options
- ❖ Fast response with high stability
- ❖ Stainless steel 316 housing
- ❖ Sealed to IP65
- ❖ Ideal for measuring non-reflective non-metals, or painted metal surfaces

Application

- ❖ Fluid coupling temperature measurement
- ❖ Boiler shell body temperature measurement
- ❖ Condition monitoring of rotating equipment
- ❖ Measuring the "green" tyre temperature before tread curing to compensate for seasonal temperature variation



Non Contact Temperature Monitoring System

Technical Features

- ❖ Miniature non-contact temperature sensor
- ❖ RS485 modbus interface
- ❖ Measures temperatures from -20°C to 1000°C
- ❖ For use in ambient temperatures of up to 120°C without cooling
- ❖ Compatible with third-party RS485 modbus master devices, or Calnex touch screen interface

Application

- ❖ Condition monitoring of conveyor belt gear shaft.
- ❖ Bus bar joints temperature monitoring (3-phase switchgear cabinets)



Adjustable Pressure Switch 901P

Technical Features

- ❖ Adjustable pressure switch monitoring overpressure, vacuum or differential pressure of liquid and gaseous – also aggressive – media
- ❖ The pressure switch uses a scaled adjustment knob to enable the adjustment of trip and reset pressure without the use of a screwdriver.
- ❖ Pressure range -700 mbar to 12 bar
- ❖ ATEX version also available for ex zones 0, 1, 2 and 21, 22
- ❖ Life cycle mechanically more than 106 cycles

Application

- ❖ Utility
- ❖ Boiler
- ❖ Wastewater
- ❖ Liquid level measurement
- ❖ Pump control
- ❖ Hydraulic pressure measurement
- ❖ Gas pressure measurement



Digital Pressure Transmitter with Display (DST400)

Technical Features

- ❖ Programmable by NFC/RFID technology (no wiring required)
- ❖ Integrated datalogger with programmable sampling time
- ❖ Independent rotation of display 335° and electrical connector 343° rotatable
- ❖ Selection of the analogue output by parameter as ma or volt
- ❖ Scalability of measuring range till 50% of the nominal scale
- ❖ Two PNP outputs
- ❖ Pressure switch-transmitter-display / all in one

Application

- ❖ Process
- ❖ Utility
- ❖ Hydraulic
- ❖ Power pack
- ❖ Pumps and compressors



Pressure Transmitter

Specification :

- ❖ Measuring ranges from 100 mbar to 600 bar
- ❖ 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 Gauge 990

Technical Features

- ❖ The differential pressure gauges 990 display are for air and non-aggressive gases and will be used to measure differential pressure, overpressure and vacuum
- ❖ Adjustable pressure range from 0 to 2.5 bar
- ❖ Switchable pressure units
- ❖ Switchable output signal 0 ... 10V or 4 ... 20 ma, 3-wire
- ❖ 2 potential-free switching outputs with a maximum switching capability of 50VAC/5A (S1) and 250VAC/5A (S2)
- ❖ Adjustable response time, easy offset calibration

Application

- ❖ Bag filter pressure monitoring
- ❖ Bag house condition monitoring



Digital Differential Pressure Transmitter

Specification :

- ❖ Pressure range : 1 kPa/2.5 kPa/5 kPa/10 kPa (selectable)
- ❖ Supply voltage: 15 ... 32 VDC, two-wire
- ❖ Output : 4 ... 20 mA
- ❖ Protection class : IP67
- ❖ Operating temperature : 0 ... 50°C
- ❖ Pressure ports for tubing : NW 4 or 6 mm
- ❖ Display : 3 1/2 digits

Application :

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



Differential Pressure Transmitter for Liquids

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 : $\pm 0.4\%$ (typ.) / ± 1.0 (max.)
- ❖ Protection class : IP65

Application :

- ❖ Differential pressure measurement between supply and return in heating systems
- ❖ Monitoring of filters, fans and compressors
- ❖ Oil filter status



Portable Digital Manometer (EMA 200)

Technical Features

- ❖ High level of accuracy and long-term stability
- ❖ Little zero point drift or hysteresis; largely independent of temperature
- ❖ Available for 4 measuring ranges
- ❖ Scalable analog output
- ❖ Zero-point calibration at the touch of a button eliminates the dependence of the display on its location
- ❖ Stores min. And max. values
- ❖ Flow-rate display
- ❖ Can be calibrated



Application

- ❖ Pressure measurement in air duct line
- ❖ Differential pressure measurement across the filter
- ❖ Draft pressure measurement
- ❖ Air velocity measurement in HVAC & process

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
- ❖ Diphgram material : SS/ NBR



Application : Screw Conveyor / Chute Jam Detection

- ❖ Bucket Elevator

Pendulum Level Indicators (MS 1)

Technical Features

- ❖ Product density 0.3 t/m³ ... 3 t/m³
- ❖ Maximum grain size up to 100 mm
- ❖ Capacity of the contact 15 A / 250 V ac (for resistive loads)
- ❖ No auxiliary power supply require
- ❖ Length up to 2000 mm

Application

- ❖ High level switch of storage bunkers and silo
- ❖ Control of conveying belts for gravel
- ❖ Level control in a coal bunker



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 : 3/4" NPT
- ❖ Reference System: Ag / AgCl / Solid electrolyte
- ❖ Max. Pressure : < 10 bar



Application :

- ❖ pH Control of a Fed Batch Reactor

Liquid Analyzer - pH/ ORP

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

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



Air Flow and Velocity Transmitter 985V

Technical Features

- ❖ The transmitters of the 985V series are used to measure volume flow or flow velocity and pressure. A jumper enables switching between volume flow or flow velocity and pressure measurement
- ❖ Measurement range up to 60 m/s.
- ❖ Output signal: 0-10 v / 4 to 20 ma
- ❖ Protection class : IP 65
- ❖ Output signal: 0 ... 10 V or 4 ... 20 ma
- ❖ Units selectable : volume flow : m³/h; m³/s; cfm; l/s flow velocity : m/s; ft/min
- ❖ Configuration of volume flow or flow velocity measurement

Application

- ❖ Air flow measurement via averaging flow sensor
- ❖ ID/FD fan velocity measurement via s-type pitot tube



Broken Bag Detector PFM13C

Technical Features

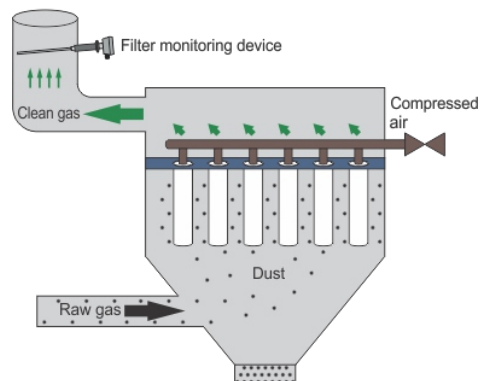
- ❖ Filter monitor for in-situ dust measurement
- ❖ Compact device with display
- ❖ Suitable for the construction of filter monitoring systems
- ❖ Dust measurement and filter monitoring with one compact device
- ❖ No purge air blower required
- ❖ Low operational costs
- ❖ Easy mounting

Application

- ❖ Broken bag leak detector



INSTALLATION EXAMPLE



Air Flow Transmitter for Large Duct

Technical Features

- ❖ Top-hat rail or wall mounting
- ❖ Measurement of volumetric flow / flow rate possible
- ❖ Also \pm measurement ranges
- ❖ Scalable measurement ranges and units
- ❖ Zero-point correction prevents zero-point drift
- ❖ Built-in valve provides a high level of overpressure 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)
- ❖ Integrated power adapter for 115/230 VAC power supply
- ❖ Margin of error: $\pm 0.2\%$ or $\pm 0.5\%$ of max. value
- ❖ Protection class IP 65, with USB: IP 40 /IP20



Technical Features of averaging Flow Sensor

- ❖ Consistently low pressure losses
- ❖ Averaging even during disturbed velocity distribution
- ❖ High accuracy
- ❖ Large dynamic range
- ❖ Long-term accuracy
- ❖ Versatility



Application

- ❖ Air flow measurement in primary and secondary air
- ❖ ID/FD fan velocity measurement via s-type pitot tube

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



Digital Process Indicator

Technical Features

- ❖ JIR-301-M (W96 x H48 x D100 mm)
- ❖ Multi input (total 18 types of input)
- ❖ High sampling speed 125ms
- ❖ Serial communication (RS-485)
- ❖ 3-point alarm output function as a standard
- ❖ Power for 2-wire transmitter
- ❖ Retransmission output
- ❖ IP66 structure (for the front panel)

Application

- ❖ Monitor the process parameter



Positioning System HIPERDRIVE HDA 70

Technical Features

- ❖ Positioning system with 42 W nominal power output
- ❖ Bus interfaces simplify start-up and wiring complexity
- ❖ Durable EC-motor
- ❖ Status messages retrievable via bus
- ❖ With bevel gear (optional)
- ❖ The HIPERDRIVE HDA 70 positioning drive allows adjustment procedures for positioning and auxiliary axes to be performed efficiently
- ❖ At low cost and with a high degree of precision
- ❖ The HIPERDRIVE is available with a PROFIBUS DP or Industrial Ethernet interface for direct connection to a control module
- ❖ The HIPERDRIVE is available with RS 485 for connection to a Hub
- ❖ Simple bus structure as only one bus node is required for up to 8 drives
- ❖ Simplified cabling as only one cable is used for the power supply and bus signal to the drive. This saves costs by reducing the number of cables and bus nodes required

Application

- ❖ To control the positioning of Tyre Building Machine (TBM)



DIN Rail Mounted Digital Signal Isolator (DCL33A)

Technical Features

- ❖ Compact 22.5mm(w) x 75mm(h) x 100mm(d)
- ❖ Multi input (total 18 types of input)
- ❖ High sampling speed 125ms
- ❖ High accuracy
- ❖ PID controller / signal isolator / temperature transmitter with display all in one
- ❖ Galvanic isolated modbus protocol available

Application

- ❖ Process
- ❖ Utility



Temperature Transmitter-Head Mounted

Technical Features

- ❖ Programmable by NFC/RFID technology (no wiring required)
- ❖ Galvanic isolated
- ❖ Universal input

Application

- ❖ Process
- ❖ Utility

