Azadi Ka Amrit Mahotsav

A Saga of 75 years journey of Indian Pharma Industry

Pharmaceutical & Biotech Industry

PARSHVI®
TECHNOLOGY (INDIA) PVT. LTD.

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

Represented by :

PARSHVI®
TECHNOLOGY (INDIA) PVT. LTD.

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RTD Probes & Temperature Transmitter

Specification :

RTD Probes

- Pt100/ Pt1000
- Process Connection : Triclover & Thread
- Dia: 6 mm
- Length: up to 100 mm. (Other on Request)
- Weather proof Aluminium Dia. Head IP 65
- Small weld-in sleeve system M12

Temperature Transmitter (Make : Pixsys)

- Programming : Wireless with Mobile Application
- Input : RTD (PT100/NI100/PT1000)
- Output : 4...20mA Loop Powered
- Power supply : operating range 6-32 Vdc
- Connection : Screw pins
- Fixing : On DIN/B head
- According to : CE, EN 61000-6-4, EN 61000-6-2, UL 61010-1
- 3600 Point Data Logging

Application : Hygienic/ Utility Process

Infrared Temperature Sensor

Specification :

- High-ambient sensing heads withstand up to 120°C
- Field of view optics : 20:1
- Temperature range : 0 to 250°C (other on request)
- Output : 4-20 mA, 2 wire
- Without display
- Cable length : 3 meter

Application : Autocoater

Autoclave Chamber & Load Temperature Probe

Specification :

- Available in PT100 RTD (Class A, AA as per IEC 60751:2008)
- Measuring range -30°C...180°C
- Response time T05=5sec
- Connection wire (cable-jacket/wire)
- PFA/PTFE, 250°C
- Material (process-intrusive) 316L

Application :

- For Temperature Measurements in Sterilizers

Strap-on Temperature Transmitter/ Controller

Specifications :

- Sensor : Pt1000 EN 60751B
- Accuracy : ±0,3 °C (at 0 °C)
- Range : -50...+120 °C
- Mounting By an adjustable tie on the pipe
- Protection class : IP54

Application :

- Designed for automatic HVAC systems to detect radiator temperatures

Immersion Temperature Transmitter/ Controller

Specifications :

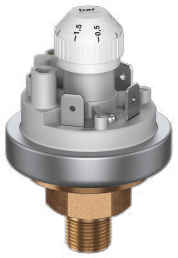
- Sensor : Pt1000 EN 60751/B
- Measuring range : -50...+120 °C
- Accuracy : ±0,3 °C (at 0 °C)
- Measuring probe Dimensions Ø 6 mm x 85 mm
- Protection class IP54

Application :

- Heating and cooling water temperatures in HVAC automation systems
- Air temperature measurements for air ventilation in ducts

Pressure Switch

Specification :



- Pressure range : -700mbar to 12 bar
- Max. operating pressure : 0.5/1 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

Air Differential Pressure Switch

Specification :

- Pressure range : 20 - 5000 Pa
- Switch type : SPDT (1 NO + 1 NC)
- Protection standard : IP54
- Temperature range : -20°C to +85°C
- Hose connection with 6 mm (OD)

Application :

- AHU Filter Status
- Fan, Blower & Filter Status

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 : ±0.25%FSO or ± 0.5%FSO
- Calibrated and temperature compensated
- Flush diaphragm construction
- Variety of pressure & electrical connections
- Operating Temperature Range : -20 to 150°C

Application :

- Hygienic Process

Pressure Transmitter

Specification :

- Measuring ranges from 100 mbar to 600 bar
- 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

Draft Pressure Transmitter of ID/FD Fan

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 : Draft Pressure Measurement of ID/FD Fan

Differential Pressure Transmitter

Specification :

- Range : ±25, ±50, ±100, ±500 0...25, 0...50, 0...250, 0...1000 (selectable via jumper)
- High accuracy : 0.4% from applied pressure
- Automatic zero point calibration
- Span point calibration (Optional)
- Measuring units : Pa, kPa, mbar, inchWC, mmWC, psi
- Supply voltage : 24 VDC ±10 % / 24 VAC ±10 %
- Output signals (3-wire) : 0/2...10 VDC 4...20 mA
- Operating temperature : -5...50 °C
- Response time : 0.4 / 8 s
- Protection standard : IP54

Application : HVAC & BMS

Differential Pressure Switches And Transmitter

Specification :

- Range : ±100 Pa / ±250 / ±300 / ±500 Pa (Selectable)
- Units : Pa, kPa, mmWC, inWC, mbar (Selectable)
- Supply Voltage : 24 VAC or VDC, ±10 %
- Output : Analog: 0-10 V
- Relay 1 : 250 VAC / 30 VDC / 6 A
- Relay 2 : 250 VAC / 30 VDC / 6 A
- Automatic zero point calibration
- Display : 3 1/2 digit LCD backlit display

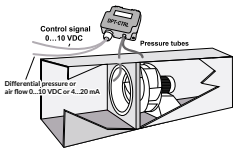
Application :

- Fan, blower and filter monitoring
- Staircase pressure monitoring and alarm
- Pressure monitoring in cleanrooms
- Boiler pressure monitoring and alarm

Differential Pressure or Air Flow Transmitter With PID Controller

Specification :

- Range : 0...2500 Pa
- Power supply : 24 VAC or VDC
- Output:
  - Control output : Voltage (0–10 V) or current (4–20 mA)
  - Differential pressure or air flow : Voltage(0–10 V) or current (4–20 mA)
- PID - Parameter : Adjustable Via Menu
- Zero Point Calibration : AZ (autozero) function for automatic zero point calibration or By Pushbutton
- with Display : 2-line display (12characters/line)
- Line 1 : Direction of control output
- Line 2 : Pressure or air flow measurement
- IP Protection : IP54



Application :

- Controlling differential pressure or air flow in air handling systems
- VAV applications

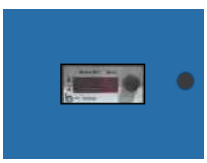
Digital Differential Pressure Transmitter with 2 relays

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) and 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 : AHU/ HEPA Filter/ Scrubber/ De-Duster

- Bag Filter Pressure Monitoring



Air Differential Pressure Transmitter

Specification :

- Range : -100 Pa ..... 500 mbar
- Supply voltage : 18 ... 30 VAC / VDC
- Output : 4 ... 20 mA or 0 ... 10 V, 3 wire
- With switching output
- Linearity : ≤ ±0.5% FS, min. ±1 Pa
- Protection class : IP54
- Working and storage temperature : -20 .....+70 °C
- Hose connection with 6 mm outer diameter
- Display : optional

Application

- Measurement of Constant Pressure in VAV
- Dynamic Filter and Ventilator Monitoring
- Monitoring & Controlling of Air Filters & Fan (Blower)
- Duct Static Pressure Monitoring

Digital Differential Pressure Transmitter

Specification :

- Range : -100 Pa and 1 bar
- Supply voltage : 18 ... 30 VAC / VDC
- Output : 4 ... 20 mA or 0 ... 10 V, 3 wire
- With switching output
- Linearity : ≤ ±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

- Pressure Monitoring in Sterilization Tunnel Chamber
- Bag Filter Status

High Precision Differential Pressure Transmitter

Specification :

- Also ± measurement ranges
- Scalable measurement ranges and units
- Zero-point correction prevents zero-point drift
- Built-in valve provides a high level of over pressure 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)
- Display with keyboard for configuration of the pressure transmitter (optional)
- Margin of error: ± 0.2 % or ± 0.5 % of max. Value
- Protection class IP 65, with USB: IP 40 /IP20

Application

- Sterilization tunnel chamber

High Precision Cleanroom Pressure Sensor

Specification :

- Measurement ranges: ± 30 Pa
- Measurement accuracy: ± 0.2 % FS
- Zero-point correction prevents zero-point drift Built-in valve provides a high level of overpressure protection
- Step response time (T63): 25 ms .. 60 s (adjustable)
- Power supply: 24 V AC / DC ± 10 %

Application :

- Cleanroom Pressure Monitor

Differential Pressure Transmitter

Specification :

- Suitable for top-hat rail mounting and wall surface installation
- Selectable output signal 0/2 .. 10 V, 0/4 .. 20 mA or 0 .. 5 V
- Selectable attenuation of the output signal of up to 4 s (optional)
- Display (optional)
- Zero-point calibration via an external signal reduces maintenance costs

Application

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

Differential Pressure Transmitter

Specification :

- Hiqh level of accuracy and long-term stability
- Measurement of positive and negative differential pressures
- LCD display (optional)
- Output signal 4 .. 20 mA
- Factory-adjusted attenuation of the output signal of up to 5 s possible (optional)

Application : Isolator

Calibrator for Low Pressure Device

Specification :

- High level of accuracy and long-term stability through automatic zero-point calibration
- Simple menu navigation for unit conversion, setting calibration points and setting the measurement range
- Generation of positive and negative differential pressures
- Easy to operate and produce calibration curves via USB port and PC

Application

- In House Calibration Purpose
- In House Calibration of Low Pressure Sensor Like Magnehelic Gauge and DPT

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

Differential Pressure Switch for Liquids

Specification :

- Range : 40 to 1000 mbar
- Pressure connection : Inner thread G 1/8 of Brass (CuZn40) P1+ / P2–
- Maximum operating pressure : 10 bar
- Switch type : 1 - SPDT
- Protection class : IP65
- When the flow or pressure from this fall or rise to an alarm condition.

Application :

- Running Status of Primary and Secondary Variable Pump

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 : +/- 0.5% FS
- Protection class : IP65

Application :

- Secondary Variable Pump Control in Chiller Management

Capacitive Type Level Switch

Specification :

- Process connection : G1/2" hygienic
- Output signal : PNP, NPN or Push-Pull, switchable
- Response time : <0,2sec
- Supply voltage : Ub=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" (LFV12) process connections
- High pressure up-to 15 bar
- High Temperature up-to 150 °C available

Applications :

- Flow/No-Flow Detection in Pipe-Lines.
- Used as a Full, Empty and Demand Alarm in Fluid Containers, Tanks Containing Liquids of Various Types, Fuel Oil, Lube Oil etc.

Liquid Vibrating Fork Level Switch

Specification :

- Compact size.
- Universal industrial power supply (15 to 80 VDC & 15 to 260 VAC).
- Low power consumption.
- No calibration required.
- All liquids from free-flowing to viscosity up-to 10,000cP.
- Process pressure max. 15 bar
- Process temperature max 200 °C.
- Minimum and maximum fail safe field selectable.

Application

- High Low Detection in Silo/ Vessel.
- Flow/ No-Flow Detection in Pipe-Lines.

Conductivity Level Switch

Specification :

- Enclosure : Aluminium non-Hazardous IP-65/ 68
- Sensor type : Rigid rod (PTFE insulated)
- Material temperature : max 80°C
- Sensor MOC : SS304
- Process connection : 1-1/2" BSP thread (M)
- Power supply : 12-260 VAC/12-60 VDC
- Output : 1 DPDT relay insertion length : 500mm
- Reference probe length : 500mm high level : 100mm, low level : 400 mm

Application : Scrubber Liquid Level

Solid Vibrating Fork Level Switch

Specification :

- Enclosure : Aluminium non-Hazardous IP-66/ 68
- Process Temperature : 200°C
- Sensing surface material : SS-316
- Process connection : Threaded 1 1/4" BSP
- Process connection material: SS-304
- Universal supply 15-60VDC & 15-260VAC
- Output : 1 x DPDT potential-free relay output
- Relay rating : 5A 230VAC, 5A 24VDC for resistive loads
- Probe Length : Customize

Application

- Level Measurement of Free Flowing Powders and Granules (size max. 10mm).

RF Admittance Level Switch

Specification :

- Enclosure : Aluminium Non-Hazardous IP-65/68
- Process Temperature : 200 Degrees C
- Sensor Type : Rigid Rod Probe
- Sensing Material : SS-316
- Insulation Type : Part PTFE
- Process Connection Material : SS 304
- EIUD : Mains : 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

Application :

- Coal Bunker Level Measurement

Capacitance Level Transmitter

Specification :

- Compact size.
- Rigid rod/flexible rope versions.
- Wide range industrial dc power supply (15 to 60 VDC).
- Loop powered device (two wire).
- No potentiometers – hassle free calibration
- Various customized process connections like Threaded/Flanged/Hygienic etc.
- Remote electronics version available on request.
- Process temperature max. 200 °C.
- Process pressure max. 20 bar.
- Suitable for corrosive liquids.
- Suitable for top mounting.

Application :

- Free flowing homogeneous liquids Like oil, raw water, WFI, DM/DI water etc.

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
- High protection class
- Explosion proof type
- LCD display

Applications :

- Sedimentation Tank
- Sewage Treatment
- FO Tank Level

Hydrostatic Continuous Level Transmitter

Specification :

- Compact size.
- Wide range industrial dc power supply (12 to 36 VDC).
- Loop powered device (true-two 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.

Water Quality Monitoring System (pH, Conductivity, Turbidity, Total chlorine, Free Chlorine, Ozone & 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
- Ozone : Up to 1000 g/l, 5.00 / 10.00 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 Iconic Boiler Feed Water
- ETP

pH Electrode

Specification :

- High alkali high temperature glass
- Measuring range pH 0.. 14
- Very small alkaline error
- Suitable for temperatures up to 135 °C (275 °F)
- Long service life due to refillable reference electrode
- High quality Zirkon junction for reliable measurement results
- Dirt-repellent and corrosion resistant PTFE junction
- Integrated temperature sensor
- Process Connection : Vario pin (PG 13.5)
- Reference System: Ag / AgCl / Solid electrolyte
- Max. Pressure : < 10 bar

Application :

- Scrubber System
- Low Iconic Boiler Feed Water
- Drinking Water Treatment
- ETP
- Fermentation Process

Conductivity Transmitter

Specification :

- Measuring range : 0 µS/cm – 15000 µS/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 Ub = 24 V +/- 20% (18...32 VDC)

Application :

- Water & Waste Water Process Engineering

Cell Growth Measurement Transmitter (Bio Mass Sensor)

Specification :

- Hygienic design (CIP/SIP-compatible & autoclavable)
- Integrated digital transmitter (logarithmic amplifier)
- Resistant sapphire window
- Long-lasting LED light source for color-neutral measurements
- Configuration using EXpert software
- AU, OD, EBC, FAU, mg/l or customer-specific unit (CDU)
- OPL available in 5 / 10 / 20 mm and various shaft lengths
- Can be used in small fermenters
- Protection class IP68

Application

- Measurement and Monitoring of Cell Growth (e.g. yeast or mammalian cells) in the Laboratory and the Production Process
- Monitoring of Fermentation Processes
- Colour-independent Concentration Measurement of Microorganisms (e.g. determination of Bacteria or Algae Concentrations, Particularly Microalgae)
- Determination of the Optimal Time for Cell Harvesting
- Establishment of Controlled Systems for Cell Density, Feed or Dilution Rates
- Filter Monitoring

Inline Liquid Concentration Monitor

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
- Process pressure : -1 to 16 bar
  Process temperature : -40°C ...100°C (130°C During CIP and SIP)
- Sensor protection class : IP67, Nema 4X
- Power Supply : 24 VDC
- Output : 2 ×4-20 mA

Application :

- Concentration monitor in TFF system
- Concentration monitor in bioreactor and ultra filtration systems
- Glucose and Sugar Concentration Monitor in bio process

Solid Flow Monitor (BBD Sensor)

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)
- 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/ FBD

SPM Dust Monitor - QAL1 Certified

Specification :

- Compact device with aluminum housing
- Probe rod length : 500 mm
- Measuring range of dust : lowest certificated 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 : Stack Dust Emissions Measurement

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

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%
- 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 DHS / Autocoater
- In-duct air flow monitoring
- Measure and monitor air flow across centrifugalfans

Air Velocity Transmitter/ Controller

Specification :

- Range : 0 to 2/ 0 to 10/ 0 to 20m/s (selectable via jumper)
- Output : 0-10V or 4-20mA
- Probe : Adjustable immersion length 50...180 mm, mounting flange included
- Display Optional
- Field adjustable relay (Optional)

Application

- In-Duct Air Flow and Velocity Monitoring
- VAV Applications

Air Velocity Sensor for Sterilization Tunnel

Specification :

- Measuring range : 0.3 ... 3.0 m/s
- Minimum reaction time
- High time yield thanks to ultralight titanium vane wheel which is easy on the bearings
- Corrosion resistant
- Can be sterilized
- High working temperature and pressure range
- Temperatures Up to +350 °C for Sterilization Tunnel
- Operates largely irrespective of density and composition of gas
- Low pressure drop
- Easy adjustment to process parameter
- H2O2 sterilizable

Application :

- Monitoring laminar flow
- Air Flow measurement in Sterilization Tunnel

VHP Compatible Air Flow Sensor

Specification :

- Accurate measurement of lowest flow velocities
- Integrated transducer
- ATEX protection for applications in Category 3G and 3D (Zone 2 and 22)
- No moving parts
- GMP compliant
- Protective stainless steel body
- Sterilisable with hydrogen peroxide (H2O2)
- Easy ceiling or wall mounting
- High durability
- Self-monitoring: discontinuity, damage to sensor element, heavy soilage, parameter inconsistency
- Easy adjustment of parameters via serial interface

Applications:

- Measuring laminar flow in clean rooms, under fan filter units
- Monitoring flow in glove boxes, isolators

Portable Ultrasonic Flow Meter For Liquids

Specification

- Flow velocity range 0.2 ... 20 m/s
- Bi-directional
- Menu-oriented operation
- Backlit graphic display, 64 x 240 pixels
- Programming via 16 key control panel
- Battery or mains operation
- Battery life up to 20 hours
- Power 110 ... 240 VAC +/-10 %
- Measurement uncertainty: pipe OD > 75 mm : ± 2 % of measured value
- Installation without process interruption or shut-down
- High-capacity data logger with numerous parameters for pipe materials and mediums
- No pressure losses when measuring flow rate, no risk of leakage, no cleaning necessary
- Easy retrofitting

Application :

- Flow rate measurement in liquid-filled pipes
- HVAC systems, pump and technical system verification
- Fire and hydraulic systems
- Boiler testing
- Leak detection
- Filter sizing
- Ultrapure liquids/ fluids in pharmaceutical industry

Humidity & Temperature Transmitter/ Controller

Specification :

- Duct + Wall Mounting
- Power supply : 24 Vac/dc, < 1 VA
- Accuracy: ±2 %rH
- Modbus Communication (optional)
- Humidity measurement range : 0...100 %rH
- Humidity measurement accuracy : ±2 %rH
- Temperature measurement range : -50...50 °C
- Temperature measurement accuracy : ±0.5 °C
- Humidity output 0...10 Vdc, 2 mA / 4...20 mA < 600 Ω
- Temperature output 0...10 Vdc, 2 mA / 4...20 mA < 600 Ω
- IP protection class : IP54 Ambient temperature :-50...50 °C
- Mounting : with flange, probe depth adjustable < 150 mm

Temperature & Humidity Transmitter/ Controller

Specification :

The following measurement options are available in RTX Series

- Temperature Measurement
- Humidity measurement
- Inbuilt PID Controller
- Available with Modbus RTU or BACnet MS/TP communication via the Rs-485
- Configure via mobile application
- Temperature measurement accuracy ±0.3 °C
- External O/P: 0..10 V (freely scalable)

Application :

- To control the heating, cooling or VAV applications
- To Control the AHU , Humidification and Dehumidification system

Vibration Monitoring Sensor

Specification :

- 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 – 25 mm/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

Application : Fan & Blower Vibration 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!
- 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

Digital Process Indicator

Specification :

- Compact Design
- Galvanic Isolation 1.5 kV (Input, Output and Power Supply)
- Sampling Time 125 ms
- User-Friendly Operation and Configuration
- Password Protection for Configuration
- IP66 Protection Class for Front Flush
- Standard Retransmission Output (4-20 mA, 12000-bit Resolution)
- CE and UL approved
- 3 Points Alarm output
- Lower Power Consumption (8VA), Longer Life of Electronics Modules
- Loop Break & Sensor Burnout Alarm
- Multi-input : total 18 types of input

Exner Retractable Fittings

Specification :

- Designed according to hygienic criteria
- Stainless steel AISI 316L / 1.4404
- EPDM sealings with FDA and USP VI approval
- Up to 10 bar and 140 °C
- Protection cap for cable connection
- Process connections for hygiene applications
- Static probe housing with Ingold connection (DN25)
- Static probe housing with clamp connection
- Excellent stainless steel surface qualities (up to Ra <0.37 µm)
- Available with or without protection cage
- Suitable for sensors with 120 mm length and PG13.5 connection

Application :

- Pharmaceutical
- For all Kind of Ø12/120mm Sensors with Thread PG13.5 (pH-glass- and ISFET Sensors, Conductivity- or Temperature Sensors, Turbidity and Other Optical Sensors)

Universal Convertor

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

Application :

- Universal Isolated Digital Temperature Transmitter
- Digital Temperature Switch
- Universal Signal Isolator

Special Drive for Gate Opening and Closing

Specification :

- Release-input (optional) and position report ensure high level of functional security
- Variable positioning range up to 50 rotations
- Position : Horizontal construction
- Protection class : IP 55
- Position feedback : 0 .. 10 V (floating contact "position reached")
- Output shaft : 12 mm solid shaft with flattening
- Positioning accuracy : 2 % of positioning range
- Power supply : 24 VDC

Application :

- Sterilizing Tunnel / DHS

Integrated Stepper Motor

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

Application

- Used in Vial Filling Machine/ Vial Capping Machine for
- Cap Vibrating Bowl Height Regulation
- Capping head Height Regulation
- Stopper Vibrating Bowl Height Regulation
- Capping In feed Auger Height Regulation

5 YEAR WARRANTY