

DAIRY, FOOD AND BEVERAGE INDUSTRY

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RTD Probe with TC and Temperature Transmitter

Model : RTD Probe

Specification :

RTD Probe

- ❖ PT100 (3 Wire simplex)
- ❖ Process Connection: 1.5" TC (50.5 mm)
- ❖ Dia : 6 mm
- ❖ Length : up to 100 mm. (Other on Request)
- ❖ Weather proof Aluminium Dia. Head IP 65

Temperature Transmitter (Make : Pixsys)

- ❖ Programming : Wireless with Mobile Application (No wiring required)
- ❖ 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
- ❖ Operating conditions : Temperature -40+85 °C, humidity 30..90 uR% (non condensing)
- ❖ Material : Nylon (Pa66)
- ❖ 3600 points data logger

Application : Hygienic Process/ Utility



Infrared Temperature Sensor (Pyrometer)

Model : PyroCouple (Make : Calex)

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 as it is heated in temperature controlled "kettles"
- ❖ To measure the temperature of toffee webs as they leave cooling drums



Hand-Held Digital Thermo-meter

Model : DFT-700-M (Make : Shinko)

Specification :

- ❖ Memory function for 10 pieces of data
- ❖ Backlight lets you check data in the dark
- ❖ Multi-range input : Thermocouple, RTD, Exclusive hygro-thermo sensor
- ❖ Battery life 200 hours for continuous measurement
- ❖ Dust-proof, drip-proof : IP65 for the front panel
- ❖ Sampling period : 0.4sec

Application

- ❖ Temperature of interiors of objects and liquids



Portable Temperature Data Logger

Model : EXCELOG 6 (Make : Calex)

Specification :

- ❖ 4 x thermocouple inputs and 2 x RTD inputs
- ❖ Display and log all 6 channels simultaneously or individually
- ❖ Data logging to SD Card, or PC via USB interface
- ❖ Powered by built-in battery, USB or mains adapter (included)
- ❖ Touch screen with backlight
- ❖ Built-in stand
- ❖ Free software available; Modbus protocol allows use with third-party software
- ❖ 2-channel scrolling temperature chart
- ❖ Alarm indication for each channel

Application :

- ❖ Temperature Data Logging & Thermal mapping



Pressure Transmitter with Thread Connection

Model : TFP 40s (Make : Trumen)

Specification :

- ❖ Measuring ranges from 100mbar to 600bar
- ❖ Absolute, gauge and sealed gauge
- ❖ Accuracy: $\pm 0.25\% \text{FSO}$ or $\pm 0.5\% \text{FSO}$
- ❖ 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



Hygienic Pressure Transmitter

Model : TFP310 (Make : Trumen)

Specification :

- ❖ Piezoresistive pressure sensor design
- ❖ Measuring ranges : -1 bar to 40 bar
- ❖ Output : 4...20mA, 0...10V, 0...5V and others
- ❖ Accuracy : $\pm 0.25\% \text{FSO}$ or $\pm 0.5\% \text{FSO}$
- ❖ Calibrated and temperature compensated
- ❖ Flush diaphragm construction
- ❖ Variety of pressure & electrical connections
- ❖ Operating temperature range: -20 to 200 °C

Application : For Hygienic Process



Digital Differential Pressure Transmitter

Model : 985M (Make : Beck GmbH)

Specification :

- ❖ Range : 0 ... 250 mmWC / 0 ... 500 mmWC
- ❖ Supply voltage : 18 ... 30 VAC / VDC
- ❖ Output : 4 ... 20 mA or 0 ... 10 V, 3 wire
- ❖ With switching output
- ❖ Linearity : $\leq \pm 0.5\% \text{FS}$, min. $\pm 1 \text{ Pa}$
- ❖ 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 : Bag Filter Status / Aseptic Packaging Machine

- ❖ DP measurement at AHU



Portable Digital Manometer + Air Velocity Meter

Model : EMA 200 (Make : Halstrup-walcher GmbH)

Specification :

- ❖ Range : $\pm 2 \text{ kPa}$ ($\pm 200 \text{ mmWC}$)
- ❖ Velocity range : 5 ... 58 m/s
- ❖ Display : 3 1/2" Digit, LCD
- ❖ Accuracy : $\pm 0.5\%$ 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



Flush Diaphragm Type Level Transmitter with Indicator

Model : TFP 300+ STR551 (Make : Trumen)

Specification :

- ❖ Piezoresistive pressure sensor design
- ❖ Measuring ranges : 1bar to 100bar
- ❖ Output : 4...20mA, 0...10V, 0...5V and others
- ❖ Accuracy : $\pm 0.25\%$ FSO or $\pm 0.5\%$ FSO
- ❖ Calibrated and temperature compensated
- ❖ Operating Temperature Range:-20 to +150°C
- ❖ Variety of pressure & electrical connections



Indicator_STR551

- ❖ Size : 96x48
- ❖ Customizable linear input (max 16 steps)
- ❖ Universal Power supply
- ❖ Inbuilt TPS
- ❖ OLED Sharp Display
- ❖ retransmission Output to connect with PLC
- ❖ 2 High and low Level Switch for Safety
- ❖ Modbus communication
- ❖ 3600 points data logger
- ❖ Configuration very easy and can done through mobile



Application : Level Measurement at silo/ Vessel in Dairy & Beverage Industry

Milk Silo Level Transmitter

Model : PiezoSwitch PS (Make : Hengesbach)

Specification :

- ❖ Output signal 4...20mA, 2 wire
- ❖ Max. 2 PNP-switching outputs, 24V DC, max. 50mA,
- ❖ With indicator for switching status
- ❖ LED-display for measurement reading
- ❖ easy configuration and operating modus with 3 buttons
- ❖ Menu-driven configuration on site
- ❖ Free programmable measuring Ranges from -1/0 up to 30bar, TurnDown 4
- ❖ Process connections G1" elastomer-free sealing cone, turnable or EHEDG
- ❖ EL-ASEPTIC certified modular system PZM, with more than 20 different process connection adapters and weld-in sockets
- ❖ Process Temperature -40°C up to 125°C/ 140°C 1h during CIP & SIP-processes
- ❖ Reliable switching functionality

Application :

- ❖ Level measurements in tanks with high pressure or vacuum load and low filling height
- ❖ Highly precise measurement of content Pressurized Tanks / Vacuum Measurements with high temperatures



Compact Liquid Vibrating Fork Level Switch

Model : LFV 12 (Make : Trumen)

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 :

- ❖ Flow/No-Flow detection in pipe-lines.
- ❖ Used as a full, empty and demand alarm in fluid containers, tanks containing liquids of various types, including milk & milk products, edible oil, fuel oil, lube oil, brewery etc.

Hydrostatic Continuous Level Transmitter

Model : TLH (Make : Trumen)

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.

Vibrating Fork Level Switch for Solid

Model : LSV (Make: TRUMEN)

Specification :

- ❖ Enclosure : Aluminium non-Hazardous IP-66/ 68
- ❖ Process Temperature : upto 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
- ❖ Switching : Single-point level switching
- ❖ Relay rating : 5A 230VAC, 5A 24VDC for resistive loads
- ❖ Probe length: 250 mm (other on request)



Application

- ❖ Level measurement of Free flowing powders and granules (size max. 10mm) in Hopper, Silo & Vessel

Liquid Analyzer - pH/ ORP/ Conductivity/ DO

Model : AER Series

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), additional 2 points (optional)
- ❖ Proportional control, max. 4 points of relay contact
- ❖ Various settings & calibration via software communication (RS-485) (optional)
- ❖ Transmission output 2 (optional)



Application :

- ❖ Scrubber System ❖ Low Ionic Boiler Feed Water ❖ ETP

Note : Suitable Electrode will provide along with Transmitter

Compact Turbidity sensors

Model : EXspect & Explore (Make : Exner)

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 :

- ❖ Precise phase separation
- ❖ Control of separators
- ❖ Filter monitoring
- ❖ Colour-independent concentration measurement
- ❖ CIP return line
- ❖ Product/ water push - to save water and milk
- ❖ Monitoring of product changes
- ❖ Yeast management



Inline Optical Brix Monitor

Model : DCM-20 (Make : KxS Technologies)

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
- ❖ Measurement accuracy:±0.0002 refractive index unit RIU
- ❖ Speed of response:1 sec. undamped
- ❖ Temperature compensation: Automatic, individual zero point calibration
- ❖ Hygienic design:3-A Sanitary Standard 46-04 and EHEDG Type EL Class I certified.
- ❖ Process connection: 1.5" and 2.5" sanitary connection, Varinline® and APV tank bottom flange Optional flow cell housing connections with sanitary or DIN/ANSI flanges
- ❖ Process pressure:9-55 bar, 130-800 psi (depending on process connection)
- ❖ Process temperature:-40°C ...100°C continuous process temperature
Withstands 130 °C CIP and SIP sequences
- ❖ Sensor protection class:IP67, Nema 4X
- ❖ Power Supply: 24 VDC
- ❖ Output: 2 pcs independent 4-20 mA user configurable outputs

Application :

- ❖ Inline Brix monitors drive Dairy evaporators and Spray dryers
- ❖ Inline Brix monitors drive whey protein concentrate membrane filtration systems



Air Flow & Velocity Transmitter

Model : DPT Flow+ FloXact Series (Make : HK Instruments Oy)

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 Duct



DIN Rail Mounted Signal Isolator & Temperature Transmitter

Model : DCL 33 (Make : Shinko)

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 :

- ❖ Digital safety temperature limiter
- ❖ Universal signal isolator
- ❖ DIN Rail Mounted temperature transmitter

Dust Measuring Device - QAL1 Certified

Model : PFM20 (Make : Dr. Födisch)

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



Broken Bag Detector (BBD Sensor)

Model : PFM 13C (Make : Dr. Födisch AG)

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



Load Cell/Strain-Gauge Indicator

Model : STR 561 (Make : Pixsys)

Specification :

- ❖ Visualization of process trend or Bar graph
- ❖ Alarm thresholds and process analogue retransmission
- ❖ Universal Power Supply
- ❖ OLED Sharp Display
- ❖ Retransmission Output to connect with PLC
- ❖ 2 High and low Level Switch for Safety
- ❖ Modbus Communication
- ❖ 3600 points data logger
- ❖ Configuration very easy and can done through mobile



Recorder

Model : HR-700 (Make : Shinko)

Specification :

- ❖ Effective recording width 100mm
- ❖ Short Depth (150mm) and Light weight (1.5kg)
- ❖ Communication function (RS-232C) is provided as standard
- ❖ Multi-range input
- ❖ Input points Pen/1-point, 2-point/Dot printing/6-point
- ❖ Supply voltage 100 to 240V AC 50/60Hz
- ❖ Interface RS-232C/1200/2400/4800/9600bps

Application : Process Data Recording



Smart Vibration Sensor

Model : HE050 (Make : HAUBER - Elektronik GmbH)

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

