

Hygienic measurement devices for brewery, beverage & dairy (F&B)



Pressure / Level

Piezo resistive front-flush (PZM, TPF)

- **PZM: One basic device - all process connections**
- With in-situ digital display or external control (Opus)
- **Superior Precision** $< \pm 0,05\%$ FS
- EHEDG type EL-ASEPTIC Class I certified
- ... Or fixed process connections (TPF)



Ceramic semi front-flush (KS, TCF, TCS)

- Aseptic (N3), DIN11851, Varivent, ...
- Low measuring ranges and high overpressure resistance
- Suitable for abrasive media and rough cleaning conditions



Difference pressure transmitter (KERADIFF)

- With capillary and front-flush process connections



Capacitive / potentiometric continuous level probe (NCT / NPT)

- Metallic sealing G1/2"; various adaptors available
- Immersion lengths of up to 2m (NCT) resp. 2,5m (NPT)
- Control via infrared remote (NCT)



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Temperature

QUICKTEMP - one basic device, all process connections

- Protective sleeves and adaptors from DN10 upwards
- Remove thermometer without affecting processes
- Monitor loop current independently (with QCI circuit)
- High accuracy of 0,25% FS resp. 0,2% FS
- Programmable measurement range from -200...+650°C

- Fast response time (TP70) for heating systems
- Two independent measurements (TP62) for HACCP
- Compact housing for vibration-heavy measurement points (TP51, TP52)



- **With in-situ display (TEMA)**
- Programmable measurement ranges from -50...+200°C
- Temperature display in °C or °F



Fixed process connections

- Metallic sealing G1/2"; various adaptors available
- Varivent, DIN11851, Tri-Clamp DIN32676/ISO2852, ...
- Fixed pipe thermometer (TP21) / cable thermometer (TP11)



Overview product range

CURRENT_Product_Overview.xls
22.09.2017 Rev 0 / Ho

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Analysis (conductivity, turbidity)

Conductivity (CONDUTEC)

- Programmable, output for both conductivity and temperature
- Process connections PZM, Varivent, DIN11864-1, DIN11851, Tri-Clamp, ...
- compact or separate version
- High sensitivity configuration for ultrapure water & condensate



Inductive conductivity (INDUTEC)

- Programmable, output for both conductivity and temperature
- Robust, hygienic measurement with fast time response
- compact or separate version



Turbidity (TURBIMESS NG)

- Optimized for high turbidity measurement (30% milk fat content)
- Media temperatures of 125°C (permanent), 150°C (for 30 minutes)
- Hygienic semi flush front design without in-flow parts



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Level switches

Capacity level switches (LEVELTEC)

- Metallic sealing G1/2" & M12x1,5; various adaptors available
- Suitable also for non-conductive media
- Variants covering pasty and adhesive media
- High- and low-level detection of viscous and foam-forming media



Conductive level switch (NKS11, NKS13)

- Metallic sealing G1/2" & G3/4"; various adaptors available
- Immersion lengths of up to 2m
- Can be cut to required length
- Self-adjusting detection module (NC) also covers foam detection



Vibration fork (LIQUITEC)

- Elastomer sealing G1", Tri-Clamp ISO2852 2"
- Fork polished
- Extended version for higher immersion depth
- Suitable for a wide range of media



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Flow

Calorimetric flow switch (STEC S)

- Small, compact device
- Metallic sealing G1/2", various adaptors available
- Made entirely of stainless steel
- Output 1 x NPN/PNP switch and 4-20mA flow velocity



Magnetic-inductive Flowmeter (VOLUMTEC)

- One basic device - all process connections
- High accuracy (0,2%) even at low flow rates ($> 5\mu\text{S} / \text{cm}$)
- Made entirely of stainless steel, coating PFA
- Universal, for flow measurements of streaming liquids



Magnetic-inductive Flowmeter (VolumMess)

- One basic device - all process connections
- Small, compact device
- Made entirely of stainless steel, coating PFA
- Programmable version or factory-preset
- For filler and metering systems

