

tekCor Multivariable Coriolis Flow Sensors

Tekflo engineers pioneered vibrating tube density meters in early 1970s, which later evolved into what are now known as Coriolis flow sensors. The result of this experience makes the **tekCor** range probably the most exciting advance in Coriolis mass flow and density sensing in terms of small size capability, the ultimate in accuracy, vibration insensitivity, and all at a low cost. It is truly a multivariable sensor, providing outputs in terms of mass flow, volumetric flow, density, temperature, and concentration of a 2-component liquid.



tekCor size 15mm - 40mm flanged



tekCor size 5mm - 250mm flanged

Features:

- Accuracy < $\pm 0.15\%$ of reading, repeatability $\pm 0.0005\%$ of reading
- Unobstructive, low low pressure loss U-tubes sized 5mm - 250mm (0.25" - 10") in flanged 1/2" - 6" Tri-Clamp or 15mm - 150mm DIN 11851 Sanitary
- Flow ranges : 0 - 12 T/h to 0 - 900 T/h, size dependent
- Density range : 0 - 30 kg/m³ (0 - 0.2 lb/ft³) liquids
- Power supplies : 85 - 245 Vac or 18 - 36 Vdc 8W
- Outputs : scaled pulse 0 - 10kHz, 4 - 20mA, RS485 HART
- Wetted parts : 316L stainless steel or Hastelloy C
- Density accuracy < $\pm 0.05\%$ of reading (liquids)
- Repeatability : < 0.02 g/cm³ Optional < 0.002 g/cm³
- Temp. range : -50°C to +200°C (-58°F to +356°F)
- Pressure rating : 40 barg standard, Optional 100 barg
- High long term stability, no zero drift
- Programmable batch control via 24Vdc relay 0.1A SPDT contact.
- Offers direct mass flow measurement – no need for temperature and pressure compensation
- Multivariable – mass or volumetric flow with separate density, % concentration and temperature
- Multivariable features allow derivative density measurement (eg "Brix, "Baume etc.)
- Independent of viscosity and density
- Flameproof to Ex d ib IIC T3 – T6
Intrinsically Safe to Ex ib IIC T3 - T6
- Unaffected by pipeline irregular velocity profiles. No straight runs necessary
- Liquid measurement virtually unaffected by small gaseous bubbles
- Quality Assurance to ISO 9001
- Meets European EMC EN 61326 - 1 for industrial locations
- Meets European Pressure Equipment Directive - Sound Engineering Practice

