



FLOW



Technology Solutions

Explosion-Proof Inline Vortex Flow Meter

Tek-Vor 1300XP



1 FEATURES

- High stable, accurate and reliable.
- Unique Dual Sensor design.
- Special signal processing method providing better anti-vibration.
- FM, FMC, ATEX, IECEx approved.
- Low Maintenance.
- Calculates Density and Mass Flow.
- Self-diagnostic function.
- More reliable performance.
- Optional Bluetooth function- read flow rate on smart phones.
- Optional multivariable version.
- In-built RTD and Pressure Sensor with display and measurement for flow rate, velocity, temperature, pressure, mass flow rate and density.

3 APPLICATIONS

- Food and Beverages
- Water, wastewater treatment plants
- Process industry
- Petrochemical
- Pharmaceutical industries

CONTACT US

796 Tek Drive, Crystal Lake, IL 60014 USA

+1 847 857 6076
+1 847 655 7428

Email: tektrol@tek-trol.com

www.tek-trol.com

2 SPECIFICATION

Accuracy	Volumetric Flow Rate: $\pm 0.7\%$ of rate (for Liquids), $\pm 1\%$ of rate (for Gas or Steam); Mass Flow Rate: $\pm 1\%$ of rate (for Liquids), $\pm 1.5\%$ of rate (for Gas or Steam); Temperature: $\pm 2^\circ\text{F}$ ($\pm 1^\circ\text{C}$) Pressure: $\pm 0.3\%$ of Full Scale Density: $\pm 0.3\%$ of Reading (for Liquids), $\pm 0.5\%$ of Reading (for Gas or Steam)	
Repeatability	Mass Flow Rate: $\pm 0.2\%$ of rate Volumetric Flow Rate: $\pm 0.1\%$ of rate Temperature: $\pm 0.2^\circ\text{F}$ ($\pm 0.1^\circ\text{C}$) Pressure: $\pm 0.05\%$ of full scale Density: $\pm 0.1\%$ of reading	
Stability	Mass Flow Rate: $\pm 0.2\%$ of rate Volumetric Flow Rate: negligible Temperature: $\pm 0.9^\circ\text{F}$ ($\pm 0.5^\circ\text{C}$) Pressure: $\pm 0.1\%$ of full scale Density: $\pm 0.1\%$ of reading	over 12 months
Response Time	Adjustable from 1 to 100 seconds	
Operating Temperature	-40°F to 140°F (-40°C to 60°C)	
Process Temperature	-330°F to 500°F (-200°C to 260°C)	
Storage Temperature	-40°F to 185°F (-40°C to 85°C)	
Pressure Rating	Full Scale Operating Pressure: 30 to 1500psi (2 to 100bar) Maximum Over Range Pressure: 60 to 2750psi (4 to 175bar)	
Output Signal	Analog: 4-20 mA Alarm: Solid state relay, 40VDC Totalizer Pulse: 50 millisecond pulse, 40VDC Volumetric or Loop Powered Mass: One Analog, One Totalizer Pulse, HART Multivariable option: Up to Three Analog Signals, Three Alarms, One Totalizer Pulse, HART Multivariable option: Modbus, Ethernet, or BACnet process monitoring	
Power Supply	DCL option: 12-36VDC, 25mA, 1W max, loop powered (single output) DCH option: 12-36VDC, 300mA, 9W max, (multiple outputs) AC option: 100-240VAC, 50/60Hz line power, 5W (multiple outputs)	
Display	Alphanumeric 2 line x 16 character LCD digital display Six pushbuttons for full field configuration Pushbuttons can be operated with magnetic wand without removal of enclosure covers Display can be mounted in 90° intervals for better viewing	
Wetted Material	Standard 316L Stainless Steel, plus • Optional Carbon Steel or Hastelloy C • DuPont Teflon® based thread sealant on models with pressure transducer	
Approvals	FM, FMC, ATEX, IECEx	