



FLOW



## Insertion Vortex Flow Meter

### Tek-Vor 1300I



## 1 FEATURES

- Monitors volumetric or mass flow for liquids, gases, and steam.
- Combines mass flow, temperature, pressure, and density readings.
- Supports real gas, ideal gas, AGA 8, and API 2540 equations.
- Provides compensated mass flow and energy monitoring, for liquids, gases, and steam.
- Easy installation without process shutdown (hot-tappable).
- Reliable design with no moving parts or fluid contact.
- High accuracy and stability
- Standard HART protocol; Modbus and BACnet optional.
- Approved by FM, FMC, ATEX, and IECEx.

## 3 APPLICATIONS

- Food and Beverages
- Water/wastewater
- Process
- Petrochemical

## CONTACT US

796 Tek Drive, Crystal Lake,  
IL 60014 USA

+1 847 857 6076

Email: [tektrol@tek-trol.com](mailto:tektrol@tek-trol.com)

[www.tek-trol.com](http://www.tek-trol.com)

## 2 SPECIFICATION

<b>Services</b>	Compatible with liquids, gases, and steam; 316L stainless steel; not for multiphase fluids.		
<b>Accuracy</b>	<b>Process Variables</b>	<b>Liquids</b>	<b>Gas &amp; Steam</b>
	Volumetric Flow Rate	± 1.2% of Rate	± 1.5% of Rate
	Mass Flow Rate	± 1.5% of Rate	± 2.0% of Rate
	Temperature	± 2°F (± 1°C)	± 2°F (± 1°C)
	Pressure	± .3% of Full Scale	± .3% of Full Scale
	Density	± .3% of Reading	± .5% of Reading
<b>Rangeability</b>	100:1		
<b>Temperature Range</b>	<ul style="list-style-type: none"><li>• Process Standard Temperature: -330 to 500°F (-200 to 260°C)</li><li>• Ambient Operating Temperature: -40 to 140°F (-40 to 60°C)</li><li>• Ambient Storage Temperature: -40 to 140°F (-40 to 60°C)</li></ul>		
<b>Pressure Range</b>	Up to 1500psia		
<b>Wetted Materials</b>	316L, Stainless Steel, PTFE		
<b>Power Supply</b>	DCL option: 12-36 VDC, 25mA, 1W max, loop powered (single output) DCH option: 12-36 VDC, 300mA, 9W max, (multiple outputs) DCHPOE option: 12-28 VDC, or Power over Ethernet, 5W max (multiple outputs) AC option: 100-240 VAC, 50/60Hz line power, 5W (multiple outputs)		
<b>Output Signal</b>	4-20 mA, HART protocol communications – Standard, Modbus, BACnet communications available		
<b>Response Time</b>	Adjustable from 1 to 100 seconds		
<b>Approvals</b>	FM, FMC, ATEX, IECEx		