



# Inline Vortex Meter Technical Specifications

## Features

- Reliable—no moving parts, no fluid to sensor contact
- In-process removable sensor, below 750 psig (52 barg) pressure
- Simple, rugged, all welded construction, no internal gaskets, no leak paths
- High accuracy with wide rangeability
- Line sizes from 1" to 12"
- High temperature operation up to 750°F
- EZ Logic™ menu-driven user interface
- 'Smart' electronics provide excellent noise immunity
- Compatible with HART Protocol

## Performance Specifications

### Accuracy

Liquid	± 0.7% of flow rate
Gas and Steam	± 1.0% of flow rate
Analog Output Version Add	± 0.1% of full scale

**Repeatability** ± 0.15% of flow rate

**Response Time** Adjustable (1 – 100 sec)

### K-factor – Temperature Correction

The K-factor of the flowmeter decreases by 0.29% for each 100°F increase in temperature above 70°F. The converse is true below 70°F. By programming the operating fluid temperature in the electronics, the change in the K-Factor is automatically corrected for.

## Operating Specifications

**Fluid Types** Liquid, Gas, Steam

**Line Sizes** 1" – 12"

**Process Temperature Limit** -40 to 750°F

**Process Pressure**

**Flange - Wafer** ANSI 150, 300, 600

All wafer bodies are rated based on appropriate flange rating to a maximum of ANSI Class 600

**Analog Output** - 4 – 20 mA, loop powered 2 wire system, digitally adjusted span

## Flowmeter Classification

### Standard

Designed to meet NEMA 4X watertight and dust tight specifications



### Explosion Proof

FM and CSA approved

### Explosion Proof and Intrinsically-Safe version

CENELEC approved

### European CE Mark

Approved

## Enclosure Specifications

Approved for NEMA 4X watertight and dust tight requirements.

### Ambient Temperature Limit

**Normal** -20 to 140°F

**Display Option** 32 to 140°F

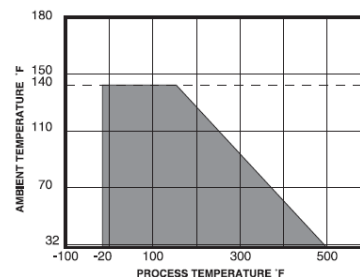


Figure 1. Ambient Temperature Range for Locally Mounted Electronics.

### Ambient Humidity Limit

5 - 100% RH non condensing

### Power Requirements

18 - 40 VDC; max power consumed: 1 watt

