

# The optimum Vortex flowmeter for steam, gas and liquid.

SITRANS FX360 Vortex flowmeter series is a unique metering solution that combines both a pressure and a temperature sensor in one unit. Using the Vortex principle to measure the flow of steam, gasses or liquids the Vortex flowmeters are technologically superior compared to traditional flowmeters.

Easy to mount and integrate, this metering solution is the ideal choice for a wide range of industries, for example chemical, oil & gas, HVAC/power, pharma and food & beverage.



sitrans f



### How does it work

The SITRANS F X flowmeter measures process flow by detecting the frequency at which alternating vortices are shed from a bluff body, which is hit by the media.

The vortices create a differential force across a sensor wing, flexing it at a frequency proportional to a flow rate that is measured by the meter.

The movement of the oscillating wing is transmitted to the SITRANS F X electronics by a dual piezoelectric crystal sensor mounted in the wing.

The result is a precise and efficient metering solution that provides a competitive edge in industries that are under increasing pressure to generate profits.

### Features & benefits

- Energy saving
- 2-wire device with integrated pressure and temperature sensors
- Easy to mount – plug and play
- Accurate and reliable metering: measures operating, normal volumetric and mass flow of conductive and non-conductive steam, gases and liquids, even in fluctuating temperatures and pressures
- Fully welded sensor design without internal gaskets, making SITRANS F X the safest Vortex flowmeter available
- Easy communication (HART)

### Applications

SITRANS F X Vortex flowmeters are specially designed for applications that require reliable flow measuring independent of pressure, temperature, viscosity and density:

- Steam and saturated steam measurement
- Steam boiler monitoring
- Control of compressor output
- Consumption measurement in compressed air systems
- Measurement of industrial gases
- Burner consumption measurement
- SIP and CIP processes in the food, beverage and pharmaceutical industries.

### Technical data

Operating temperature	-40 to +240 °C
Accuracy	Steam/gas 1.0% Liquid 0.75%
Ranges	DN 15-300
Flow rates	Steam/gas 2 to 80 m/s Liquid 0.4 to 10 m/s

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