

OPTISWIRL Vortex Flowmeter

Application Information Sheet

Company name	_____	Contact name	_____
Address	_____	Phone number	_____
City, State, Zip	_____	Email address	_____
End user (destination)	_____		

General Information

Equipment tag#	_____		
Piping information,	Pipe size _____	Schedule _____	Material _____
Meter orientation,	<input type="checkbox"/> Horizontal	<input type="checkbox"/> Vertical	<input type="checkbox"/> Inclined
Agency approvals,	<input type="checkbox"/> Without	<input type="checkbox"/> SIL2	
	<input type="checkbox"/> FM IS Class 1, Div 1 Groups ABCD	<input type="checkbox"/> FM XP Class 1, Div 1 Groups ABCD	<input type="checkbox"/> FM NI Class 1, Div 2 Groups ABCD
	<input type="checkbox"/> FM DIP Class II, III Div 1 Group EFG	<input type="checkbox"/> _____	

Process conditions

Medium name,	_____	<input type="checkbox"/> liquid state	<input type="checkbox"/> gas state	<input type="checkbox"/> saturated steam	<input type="checkbox"/> superheated steam
Type of measurement,	<input type="checkbox"/> Volume flow	<input type="checkbox"/> Volume (standard conditions)	<input type="checkbox"/> Volume (operating conditions)	<input type="checkbox"/> Mass flow	
Flow rate,	Normal _____	Minimum _____	Maximum _____	units: _____	
System pressure,	Normal _____	Minimum _____	Maximum _____	<input type="checkbox"/> psig	<input type="checkbox"/> psia
Medium temperature,	Normal _____	Minimum _____	Maximum _____	<input type="checkbox"/> °F	<input type="checkbox"/> °C
Medium properties,	Density _____	Sp. gravity _____	Viscosity _____		
	Concentration % _____	Compressability factor: _____			

Equipment specification

Power supply,	<input type="checkbox"/> 24 VDC
Converter type,	<input type="checkbox"/> Compact-mounted <input type="checkbox"/> Remote/ field-mounted (remote signal cable length) _____
Converter housing,	<input type="checkbox"/> Aluminum <input type="checkbox"/> with Sun roof <input type="checkbox"/> _____ <input type="checkbox"/> Without display <input type="checkbox"/> With display
Cable connection,	<input type="checkbox"/> Without <input type="checkbox"/> 1 x 1/2" NPT <input type="checkbox"/> 2 x 1/2" NPT <input type="checkbox"/> 3 x 1/2" NPT <input type="checkbox"/> _____
Software version,	<input type="checkbox"/> Standard version: Uncompensated for Gases, Steam and Liquids + Saturated Steam compensation <input type="checkbox"/> Standard + Gross/Net heat for Saturated Steam and Water <input type="checkbox"/> Standard + Steam + Gross/Net heat for Saturated Steam and Superheated Steam <input type="checkbox"/> Standard + Gas + Steam + FAD (Gases, Wet-Gases, Gas mixtures + Free Air Delivery for compressors) <input type="checkbox"/> _____
IO communications,	<input type="checkbox"/> HART (Pactware) <input type="checkbox"/> Foundation Fieldbus <input type="checkbox"/> Profibus PA
Signal outputs,	<input type="checkbox"/> 4-20mA + pulse <input type="checkbox"/> 4-20mA + Binary output (pulse/ frequency + status output, limit switch)

Equipment specifications

Process connections,	Size: _____	<input type="checkbox"/> ASME 150#	<input type="checkbox"/> ASME 300#	<input type="checkbox"/> ASME 600#	<input type="checkbox"/> ASME 900#	<input type="checkbox"/> ASME 1500#
	<input type="checkbox"/> Sandwich	<input type="checkbox"/> Raised face	<input type="checkbox"/> Flat face	<input type="checkbox"/> Smooth finish	<input type="checkbox"/> Clamp-on	<input type="checkbox"/> 125 AARH - 250 AARH
Sensor element size,	Size: _____					
Sensor material,	<input type="checkbox"/> 316L SST	<input type="checkbox"/> Hastelloy C22				
Sensor gasket,	<input type="checkbox"/> 316L SST	<input type="checkbox"/> Hastelloy C276				
Pressure sensor,	<input type="checkbox"/> Without	<input type="checkbox"/> _____				
Pressure sensor gasket,	<input type="checkbox"/> Without	<input type="checkbox"/> FPM gasket	<input type="checkbox"/> FFKM gasket			
Calibration,	<input type="checkbox"/> 2-point	<input type="checkbox"/> 3-point	<input type="checkbox"/> 5-point	<input type="checkbox"/> _____		

Documentation (QA/QC)

<input type="checkbox"/> KROHNE standard (IOM + calibration cert.)	<input type="checkbox"/> Pressure test + inspection certificate	<input type="checkbox"/> Certificate of compliance	<input type="checkbox"/> Hardness test
<input type="checkbox"/> General arrangement (GA) drawings	<input type="checkbox"/> Material test/ certificate	<input type="checkbox"/> Radiographic examination	<input type="checkbox"/> Cleaning exam.
<input type="checkbox"/> Construction drawings (GA) for approval	<input type="checkbox"/> Positive material identification (PMI)	<input type="checkbox"/> Dye penetrant test	<input type="checkbox"/> NACE-design

Notes/ comments: _____

KROHNE OPTISWIRL Vortex Flowmeters



OPTISWIRL 4200 series
The all-in-one solution

- Measurement of conductive and non-conductive liquids, gases and steam
- Direct measurement of mass, nominal flow rate and/or energy
- Advanced signal filter technology AVFD for high accurate stable measurement
- Integrated temperature compensation as a standard
- Temperature compensation for saturated steam
- Integral nominal diameter reduction up to 2-nominal sizes for best results in accuracy and optimal measuring ranges
- 2-wire technology
- SIL2 compliant
- HART, Foundation Fieldbus, Profibus PA
- Pressure sensor as an option



Basic version (flanged)

- Temperature compensation for saturated steam



Basic version (sandwich)

- Optimised centering rings eliminating any offset during installation



Integrated pressure & temperature compensation version

- Gases, wet gases, gas mixtures or vapours
- Integrated density compensation which allows for exact measurement of gases and superheated steam



Remote/ field-mounted version

- up to 50 meters / 164 feet



Shut-off version

- Integral 2-way shut-off valve to allow the pressure sensor to be exchanged without interrupting the process - for pressure or leak testing of the pipeline



Dual version

- Redundant system with 2-independent measuring sensors, and 2-signal converters for multi-product pipelines.