KROHNE

OPTIMASS Coriolis Mass 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, ☐ Horizontal ☐ Vertical ☐ Inclined

Agency approvals, ☐ Without ☐ Custody transfer ☐ _____

☐ FM Class 1, Div 1 ☐ FM Class 1, Div 2 ☐ _____

Process conditions

Medium name, _____ ☑ liquid state ☐ gas state

Flow conditions, ☐ Contiuous service ☐ Batching service describe: _____

Flow rate, Normal _____ Minimum _____ Maximum _____ units: USGPM

System pressure, Normal _____ Minimum _____ Maximum _____ ☐ psia ☐ psig ☐ bara ☐ barg

Medium temperature, Normal _____ Minimum _____ Maximum _____ ☐ °F ☐ °C

Medium properties, Density _____ Sp. gravity _____ Viscosity _____

Are there solids present? ☐ No ☐ Yes describe: _____

Is the fluid abrasive? ☐ No ☐ Yes describe: _____

Is entrained air present? ☐ No ☐ Yes describe: _____

Signal converter/ transmitter

Converter type, ☐ Direct Digital (DDC) ☐ Integral/ compact-mounted

☐ Remote/ field-mounted ☐ Remote/ wall-mounted remote signal cable length: _____

Converter housing, ☐ Die-cast aluminum ☐ Stainless steel ☐ Polycarbonate

Cable connection, ☐ Default ☐ 1/2" NPT (3 x compact / 5 x remote) ☐ 3 x M20 x 1,5 ☐ 3 x PF 1/2"

Power supply, ☐ 12-24 VDC ☐ 100-230 VAC

IO communications, ☐ HART ☐ Modbus ☐ Foundation Fieldbus ☐ Profibus PA ☐ Profibus DP

Base IO module: _____

1st IO module: _____

2nd IO module: _____

Measuring functions, ☐ Standard (mass flow rate, volumetric flow rate, totalized flow, referred density, temperature)

☐ General concentration ☐ Baume 144.3 ☐ NaOH ☐ Alcohol ☐ Plato ☐ Brix

☐ API gravity ☐ Baume 145.0 ☐ Concentration by mass

Mass flow sensor

Measuring tube,	☐ 316L SST	☐ 318 SST	☐ Duplex SST	☐ Hastelloy C22	☐ Titanium	☐ Tantalum
	☐ 316/316L dual certified SST					
Tube surface finish,	☐ Standard finish	☐ polished 0.8 µm	☐ polished 0.5 µm	☐ polished 0.4 µm		
Secondary containment,	☐ 304/304L SST	☐ 316L SST	☐ No secondary containment (Hermetically sealed) 316/316L casing & bridge			
Calibration,	☐ 3-point mass	☐ 5-point mass	☐ _____			
Process connections,	Size: _____	☐ ASME 150#	☐ ASME 300#	☐ ASME 600#	☐ ASME 900#	☐ ASME 1500#
	☐ Raised face	☐ RTJ	☐ inch NPT	☐ Sanitary	☐ _____	
Extended options,	☐ Liquid/ steam heating jacket		☐ Insulation - casing ONLY (standard high temperature)			
	☐ Purge fittings		☐ Insulation - casing ONLY (cryogenic / low temperature)			
	☐ Cleaning/ degreasing		☐ Adjustment for gas measurement			

Documentation (QA/QC)

☐ KROHNE standard (IOM + calibration certificate)	☐ Positive material identification (PMI)	☐ Welding book (WPQ, WPS & PQR)
☐ General arrangement drawing (GA)	☐ Test report including pressure test	☐ Inspection certificate
☐ Construction drawing (GA) for approval	☐ Radiographic examination (RT)	☐ Certificate of compliance
☐ Material certificates of pressure bearing parts	☐ Liquid (dye) penetrant examination	

Notes/ comments: _____

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_____

KROHNE Coriolis Mass Flowmeters

OPTIMASS 1000

- Excellent price to performance ratio
- Twin straight measuring tubes

OPTIMASS 2000

- Designed for bulk measurement
- Process or custody transfer applications
- Twin straight measuring tubes

OPTIMASS 3000

- Extreamely low flow rates

OPTIMASS 4011

- Designed for filling machines

OPTIMASS 6000

- High performance Coriolis
- Cryogenic / High temperatures to 752 °F
- Entrained gas management (EGM) 100% entrained gas immunity

OPTIMASS 7000

- High performance Coriolis
- Process or custody transfer applications
- Single straight measuring tube

3-year extended guarantee
(requires approval)

Signal converter/ transmitter types

- Integral/ compact-mounted
- Remote/ field-mounted
- Remote/ wall-mounted
- Direct Digital (DDC) Modbus

Communications protocol

- HART
- Foundation Fieldbus
- Modbus
- Profibus PA / DP