

OPTISONIC 3400 Liquid Ultrasonic 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, Size: _____ Schedule: _____ Material: _____ Pipe ID _____ (required if line to be pigged)
 Flow orientation, Horizontal Vertical, flow down Vertical, flow up
 Agency approvals, Without FM Class 1, Div 1 FM Class 1, Div 2 _____

Process conditions

Fluid name, _____
 Flow conditions, Continuous service Batching service describe: _____
 Bi-directional flow, No Yes
 Flow rate, Normal _____ Minimum _____ Maximum _____ units: _____
 System pressure, Normal _____ Minimum _____ Maximum _____ psig psia bara barg
 Fluid temperature, Normal _____ Minimum _____ Maximum _____ °F °C
 Fluid properties, Density _____ Sp. gravity _____ Viscosity _____
 Does fluid contain any solids? No Yes describe % & size: _____
 Is gas / entrained air present? No Yes describe % & size: _____

Signal converter/ transmitter

Converter type, Integral-mounted Remote-mounted (remote signal cable length) _____
 Converter housing, Die-cast aluminum Stainless steel _____
 Cable entry, Standard 3 x 1/2" NPT 3 x M20 x 1,5 3 x PF 1/2
 Power supply, 24 VDC 100-230 VAC
 IO communications, HART Foundation Fieldbus RS485 Modbus Profibus PA
 Base IO module: _____
 1st IO module: _____
 2nd IO module: _____
 Measuring functions, Volumetric flow rate, totalized flow, velocity of sound (VOS), flow direction, signal strength

Flow sensor

Measuring tube,	<input type="checkbox"/> Carbon steel	<input type="checkbox"/> 316L SST	<input type="checkbox"/> 316Ti SST	<input type="checkbox"/> Duplex SST	<input type="checkbox"/> Hastelloy C4	<input type="checkbox"/> Inconel
Flange material,	<input type="checkbox"/> Carbon steel	<input type="checkbox"/> 316L SST				
Sensor housing,	<input type="checkbox"/> Carbon steel	<input type="checkbox"/> 316L SST				
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"/> Raised face	<input type="checkbox"/> RTJ				
Calibration,	<input type="checkbox"/> 2-point	<input type="checkbox"/> Custom: _____				
Paint system,	<input type="checkbox"/> Standard	<input type="checkbox"/> Offshore paint system	<input type="checkbox"/> Customer paint specifications: _____			

Documentation (QA/QC)

<input checked="" type="checkbox"/> KROHNE standard (IOM + service handbook on CD + copy of calibration certificate)			
<input type="checkbox"/> General arrangement drawing (GA)	<input type="checkbox"/> Declaration of material compliance	<input type="checkbox"/> Quality and production plan	<input type="checkbox"/> Pressure test procedure
<input type="checkbox"/> Construction drawing (GA) for approval	<input type="checkbox"/> Test report including pressure test	<input type="checkbox"/> Progress reports	<input type="checkbox"/> Calibration procedure
<input type="checkbox"/> Welding book (WPQ, WPS & PQR)	<input type="checkbox"/> Hardness test report	<input type="checkbox"/> Inspection & test plan (ITP)	<input type="checkbox"/> Penetrant test procedure
<input type="checkbox"/> Stress calculations, ASME	<input type="checkbox"/> Hardness inspection	<input type="checkbox"/> ITP with customer approval	<input type="checkbox"/> Radiographic procedure
<input type="checkbox"/> Visual examination report, ASME	<input type="checkbox"/> Positive material identification (PMI)	<input type="checkbox"/> Manufactures record book	<input type="checkbox"/> PMI procedure
<input type="checkbox"/> Liquid (dye) penetrant examination (PT)	<input type="checkbox"/> Material certificates (pressure parts)	<input type="checkbox"/> Coating report	<input type="checkbox"/> Painting procedure
<input type="checkbox"/> Radiographic examination (RT)	<input type="checkbox"/> NACE MR0175	<input type="checkbox"/> Certificate of compliance	

Notes/ comments: _____

KROHNE Ultrasonic Flowmeters



UFM 3030
 3-beam inline liquid UFM
 ± 0.5% of measured value



OPTISONIC 3400
 Multi-purpose liquid UFM
 ± 0.3% of measured value
 Advanced diagnostics & converter



UFM 530 HT
 High-temperatures up to 932°F
 ± 1.0% measured value



OPTISONIC 6300/6400
 Stationary or portable clamp-on
 for liquids



ALTOSONIC III
 Custody transfer 3-beam for
 light hydrocarbons



ALTOSONIC V
 Custody transfer 5-beam for
 heavy crude oil products



ALTOSONIC V12
 Custody transfer 12-chord design
 for gas measurement



OPTISONIC 7300
 2-beam for process gases
 ± 1% accuracy of measured value