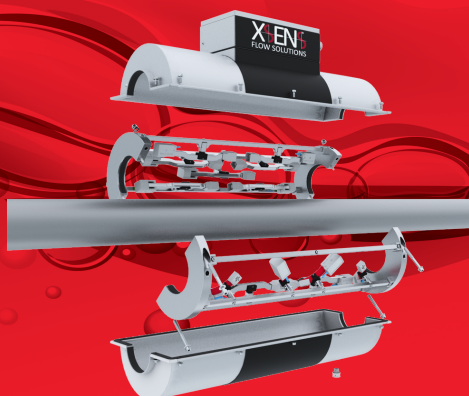


XRATE LIQUID FLOW RATE METER

	Item	Requirement	Range	
General	1	Line size	1.5" to 30" and higher	
	2	Line Schedule	Any	
	3	Pipe Class	Any	
	4	Pipe Material	Carbon Steel, SS316, Duplex (others)	
	5	Hazardous Area Protection	Atex, IECEx Zone 1 and 2	
	6	Ingress Protection	IP 66 (higher on request)	
Process Conditions	7	Fluid	Hydrocarbon / Water / Liquid mixture	
	8	Phase	Liquid	
	9	Corrosive / Erosive	Can handle both due to clamp-on design	
	10	Case	Min	Max
	11	Flowrate m/s	0.1	40
	12	Density	No limit	No limit
	13	Design pressure	No limit	No limit
	14	Design Temperature	-20 deg C	100 deg C (higher as option)
Sensor	15	Viscosity	Range from water to heavy bunker oil	
	16	Sensor Type	Ultrasonic non-intrusive (clamp-on type). Up to six pars (redundancy)	
	17	Measurement Principle	Ultrasonic Guided Wave Transit Time & Time Of Flight	
	18	Housing Sensor Material	SS316 / Aluminium	
	19	Cable from sensor to transmitter	Armored, flame retardant typ (xx meters length)	
	20	Uncertainty	+/- 1% of flow (add +/-0,01 m/s)	
	21	Turndown ratio	400:1	
	22	Removable Assembly	Yes	
	23	Electrical Connection	4-20mA / Modbus (WiFi, Canbus, Profibus and other on request)	
	24	Upstream Straight Length	2-5D (target)	
	25	Downstream Straight Length	2-5D (target)	
	26	Flow Straighteners	Not required	
	27	Static Mixer	Not required	
Transmitter	28	Housing Material	SS316 / Aluminium	
	29	Calibration	0 - 100%	
	30	Electrical Connection	To custom specifications	
	31	Power Supply	12-24 VDC (external power, or other). Typical 9,5Watt, 11 watt at start up	
	32	Output Signal	Modbus serial connected to flow computer via RS-485 /4-20mA (others on request)	
	33	Mounting	Integrated in sensor	
Options	34	Pressure Transmitter	NA	
	35	Temperature Transmitter	2*PT 100 elements included	
	36	Flow Computer	NA	
	37	Local Display	Optional	
	38	Mounting Kit	Included	
	39	Weight	From 25 kg to 150 kg depending on size	
	40	Dimensions	See GA drawings from Xsens	



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