



## LIQUID ON-OFF LOADING FLOW RATE METER FLOW SOLUTIONS

	Item	Requirement	Range	
General	1	Line size	1.5" to 36" 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	Explosion Group / Gas group	IIB	
	7	Temperature class	T3	
	8	Max Ambient temperature	60°C	
	9	Ingress Protection	IP 66 (higher on request)	
Process Conditions	10	Fluid	Hydrocarbon / Water / Liquid mixture	
	11	Phase	Liquid with or without gas (typically up to 20% GVF)	
	12	Corrosive / Erosive	Can handle both due to clamp-on design	
	13	Case	Min	Max
	14	Flowrate m/s	0.1	40
	15	Density	No limit	No limit
	16	Design pressure	No limit	No limit
	17	Design Temperature	-20 deg C	100 deg C (higher as option)
	18	Viscosity	Range from water to heavy bunker oil	
Sensor	19	Sensor Type	Ultrasonic non-intrusive (clamp-on type) Up to six pairs (redundancy)	
	20	Measurement Principle	Ultrasonic Guided Wave Transit Time & Time Of Flight and Doppler	
	21	Housing Sensor Material	SS316 / Aluminium	
	22	Cable from sensor to transmitter	Armored, flame retardant type (xx meters length)	
	23	Uncertainty	+/- 2% of flow at 0 gas and +/-5% up to 10% GVF (add +/-0,01 m/s) of actual flow	
	24	Turndown ratio	400:1	
	25	Removable Assembly	Yes	
	26	Electrical Connection	4-20mA / Modbus (WiFi, Canbus, Profibus and other on request)	
	27	Upstream Straight Length	2-5D (target)	
	28	Downstream Straight Length	2-5D (target)	
	29	Flow Straighteners	Not required	
	30	Static Mixer	Not required	
Transmitter	31	Housing Material	SS316 / Aluminium	
	32	Calibration	0 - 100%	
	33	Electrical Connection	To custom specifications	
	34	Power Supply	12-24 VDC (external power, or other).	
			Typical 9,5Watt and 11 watt at start up	
	35	Output Signal	Modbus serial connected to flow computer via RS-485 /4-20mA	
	output signal		(others on request)	
	26	Mounting	Integrated in sensor	
Options	36 37	Mounting Pressure Transmitter	nitegrated in sensor NA	
	38	Temperature Transmitter	2*PT 100 elements included	
	39	Flow Computer	NA	
	40	Local Display	Optional	
	41	Mounting Kit	Included	
	41	Weight	From 25 kg to150 kg depending on size	
	42	Dimensions	See GA drawin	
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