

# XRATE<sup>®</sup>

## INFLOW MUD FLOW RATE METER

# XSENS<sup>®</sup>

## 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	Oil and Water Based Mud (inflow)
	11	Phase	Liquid
	12	Corrosive / Erosive	Can handle both due to clamp-on design
	13	Case	<b>Min</b> <b>Max</b>
	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	Low to high
Transmitter and Sensor combined	19	Sensor Type	Ultrasonic non-intrusive (clamp-on type) Up to six pairs (redundancy)
	20	Measurement Principles	Ultrasonic Guided Wave Transit Time, Time Of Flight
	21	Housing Sensor Material	SS316 / Aluminium
	22	Cable from sensor to transmitter	Armored, flame retardant type (xx meters length)
	23	Uncertainty	+/-2% of flow (add+/-0,01m/s)
	24	Turndown ratio	400:1
	25	Removable Assembly	Yes
	26	Upstream Straight Length	2-5D (target)
	27	Downstream Straight Length	2-5D (target)
	28	Flow Straighteners	Not required
	29	Static Mixer	Not required
	30	Housing Material	SS316 / Aluminium
	31	Calibration	0 - 100%
	32	Electrical Connection	To custom specifications
	33	Power Supply	18-26 VDC (external power, or other) Typical 9,5Watt and 11 watt at start up
	34	Output Signal	Modbus serial connected to flow computer via RS-485 /4-20mA /Ex approved Ethernet connector
	35	Mounting	Integrated in sensor
Options	36	Pressure Transmitter	N/A
	37	Temperature Transmitter	PT 100 element can be included as part of the sensor, or external temperature through 4-20mA input
	38	XSENS Flow Computer	Integrated in sensor
	39	Local Display	Optional
	40	Mounting Kit	Included
	41	Weight	From 25 kg to 150 kg depending on size
	42	Dimensions	See GA drawings from Xsens



[WWW.XSENSFLOW.COM](http://WWW.XSENSFLOW.COM)

**XSENS AS**  
Godviksvingene 127  
5179 Godvik  
NORWAY