

Bont LTB- Turbine Flow Meter

- Bont Turbine flow meter adopt new types sensor with lower pressure loss, starting flow is small, anti-corrosion, and with long term work life. It also have good performance on anti-seismic and surging flow;
- High accuracy ,0.5 % normally ,0.2 % in option ::
- High repeatability, its repeatability could reach 0.5%-0.2% in short-term. So this flow meter is a good choice in trade settlement ;
- This type flow meter use micro-power technology, power consumption is low. It could be powered by battery or outside power.



■ Specification

Carried Standard	Turbine flow sensor	
Diameter & Connection	4,6,10,15,20,25,32,40,50,65,80 Thread connection	
Accuracy	±1% R , ±0.5% R , ±0.2% R (Customized)	
Measure Ratio	1:10 ; 1:15 ; 1:20	
Sensor Material	Stainless Steel 304 ,Stainless Steel 316L ,etc	
Work Condition	Medium Temperature : -20°C ~ +120 °C Relative humidity : 5% ~90%	Ambient temperature : -20°C ~ +60°C Atmosphere :86 Kpa ~106Kpa
Signal Output	Pulse ,4-20 mA	
Communication	RS485 , HART	
Power Supply	Outside power supply : +24VDC ±15% Ripple ≤ ± 5%,apply to 4-20 mA output , pulse ,RS485 communication Internal power supply:3.0V 10AH Lithium battery, regular work when the voltage in the range of 2V -3V.	
Cable Entry	Basic Model: Houseman joint or three core cable. Explosion Proof model : Internal thread M20*1.5	
Explosion Proof Class	ExiaIICT4 or EXDIIBT6	
IP Grade	IP65 or higher grade for option	

Measure range and work

Diameter mm/Inch	Normal Measure Range m3/h	Extended Measure Range m3/h	Acquiescent Installation Method And Stress Levels	Optional Installation Method And Stress Level	Designated Stress Level Mpa
DN4 / 1/8"	0.04~0.25	0.04~0.4	Thread ' 6.3Mpa	Flange , 2.5Mpa	12 , 16 , 25
DN6 / 1/4"	0.1~0.6	0.06~0.6	Thread ' 6.3Mpa	Flange , 2.5Mpa	12 , 16 , 25
DN10 / 3/8"	0.2~1.2	0.15~1.5	Thread ' 6.3Mpa	Flange , 2.5Mpa	4.0 , 6.3 , 12 , 16 , 25
DN15 / 1/2"	0.6~6	0.4~8	Thread ' 6.3Mpa	Flange , 2.5Mpa	4.0 , 6.3 , 12 , 16 , 25
DN20 / 3/4"	0.8~8	0.45~9	Thread ' 6.3Mpa	Flange , 2.5Mpa	4.0 , 6.3 , 12 , 16 , 25
DN25 / 1"	1~10	0.5~10	Thread ' 6.3Mpa	Flange , 2.5Mpa	4.0 , 6.3 , 12 , 16 , 25
DN32 / 1.1/4"	1.5~15	0.8~15	Thread ' 6.3Mpa	Flange , 2.5Mpa	4.0 , 6.3 , 12 , 16 , 25
DN40 / 1.1/2"	2~20	1~20	Thread ' 6.3Mpa	Flange , 2.5Mpa	4.0 , 6.3 , 12 , 16 , 25
DN50 / 2"	4~40	2~40	Flange ' 2.5Mpa	Thread , 6.3Mpa	4.0 , 6.3 , 12 , 16 , 25
DN65 / -	7~70	4~70	Flange ' 1.6Mpa	Thread , 6.3Mpa	4.0 , 6.3 , 12 , 16 , 25
DN80 / 3"	10~100	5~100	Flange ' 1.6Mpa	Thread , 6.3Mpa	4.0 , 6.3 , 12 , 16 , 25
DN100 / 4"	20~200	10~200	Flange ' 1.6Mpa		4.0 , 6.3 , 12 , 16 , 25
DN125 / 5"	25~250	13~250	Flange ' 1.6Mpa		2.5 , 4.0 , 6.3 , 12 , 16
DN150 / 6"	30~300	15~300	Flange ' 1.6Mpa		2.5 , 4.0 , 6.3 , 12 , 16
DN200 / 8"	80~800	40~800	Flange ' 1.6Mpa		2.5 , 4.0 , 6.3 , 12 , 16

Model and Selection

Model suffix Code								Description
LTFM								
Diameter								Three Digitals for example: 010 : 10 mm 015 : 15 mm 080 : 80 mm 100 : 100 mm
Converter	N							No display; 24VDC; Pulse Output
	A							No display; 24VDC; 4-20mA Output
	B							Local display; Lithium Battery Power; No Output
	C							Local display; 24VDC Power; 4-20mA Output Optional backup power : Lithium Battery
	C1							Local Display : 24VDC Power; 4-20mA Output; Modbus RS485 Communication Optional backup power : Lithium Battery
	H							Local Display : 24VDC Power; 4-Wire 4-20mA Output & Hart communication
Accuracy		10						1.0% of Rate
		05						0.5% of Rate
Flow Range			S					Standard Range : Refer to flow range table
			W					Wide Range : Refer to flow range table
Body Material			S					SS304
			L					SS316
Explosion Rating					N			Safety Field without Explosion
					E			ExdIIBT6
Pressure Rating						N		Per Standard
						H(x)		Customized Pressure Rating
Connection							-DXX	DXX : D06, D10, D16, D25, D40 D06 : DIN PN6; D10 : DIN PN10 D16 : DIN PN16; D25 : DIN PN25 D40 : DIN PN40
							-AX	AX : A1, A3, A6 A1 : ANSI 150#; A3 : ANSI 300# A6 : ANSI 600#
							-GX	Gx : G01 G02 G03 G04 GB Standard G01 : PN10 G02 : PN16 G03 : PN25 G04 : PN40
							-TH	Thread; DN 4...DN50
Fluid Temperature							-T1	-20...+80°C
							-T2	-20...+120°C
							-T3	-20...+150°C

Model Code : LTFM-050C10SSNN-A1-T1

Explanation - Diameter : 50mm; Converter: 24VDC Power Supply, 4-20mA Output, Local Display

Accuracy : 1.0%; Flow Range : 4-40m³/h; Body Material: SS304; No Explosion;

Connection : ANSI 150# Flange; Fluid Temperature: -20...+80°C

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