

TURBINE FLOWMETER

Standard Liquid Turbine Flow Meter LWGS



Technical Data

Output: Pulse/4-20mA;
Accuracy: ± 1.0 of Rate/ $\pm 0.5\%$ of Rate;
Operating Temp.: $-20...+60^{\circ}\text{C}$;
Fluid Temp.: $-20...+150^{\circ}\text{C}$;
Housing Material: SS304/SS316;
Rotor Material: 2Cr13/CD4MCu;
Bearing Material: Tungsten Carbide.

Operating Principle

Fluid entering the meter first passes through an inlet flow straightener that reduces its turbulent flow pattern. Fluid then passes through the turbine, causing the turbine to rotate at a speed proportional to fluid velocity. As each turbine blade passes through the magnetic field generated by the meter's magnetic pickup, an AC voltage pulse is generated. These pulses provide an output frequency that is proportional to volumetric flow.

Flow Range

Diameter (mm)	Standard Range (m3/h)	Extended Range (m3/h)
4	0.04 ~ 0.25	0.04 ~ 0.4
6	0.1 ~ 0.6	0.06 ~ 0.6
10	0.2 ~ 1.2	0.15 ~ 1.5
15	0.6 ~ 6	0.4 ~ 8
20	0.8 ~ 8	0.45 ~ 9
25	1 ~ 10	0.5 ~ 10
32	1.5 ~ 15	0.8 ~ 15
40	2 ~ 20	1 ~ 20
50	4 ~ 40	2 ~ 40
65	7 ~ 70	4 ~ 70
80	10 ~ 100	5 ~ 100
100	20 ~ 200	10 ~ 200
125	25 ~ 250	13 ~ 250
150	30 ~ 300	15 ~ 300
200	80 ~ 800	40 ~ 800


ARANKA


CE -2209

**ISO 9001:2015
COMPANY**

ARANKA INSTRUMENTS LLP

Reg. Address :

16, DHARMADEVNAGAR,

Opp. SAMARATNAGAR,

ISANPUR, Ahmedabad - 382443.

Web : www.arankainstruments.com

e-mail : utkarsh@arankainstruments.com, contact@arankainstruments.com

Cont. : (F) 09909035088, +91 93288 88879

FACTORY :

100, NILKANTH INDUSTRIAL PARK,

AMBIKA TUBE COMPOUND,

NEAR OVER BRIDGE VATVA, GIDC,

Vatva, Ahmedabad - 382445.

Standard Liquid Turbine Flow Meter LWGS

Model Selection

Model	DWGY								Description
Diameter	XXX								DN4-DN200
	N1								24V DC; Pulse output; No display
	N2								24V DC; Pulse output; No display; Ex
	A								24V DC; 4-20 mA output; No display; Ex
	E1								Battery power supply; No output; Ex; Digital Display
	E2								24V DC; 2-wire 4-20mA output; Ex; Digital Display
	E3								24V DC; Pulse output; Ex; Display
	E4								24V DC; 0-20mA output; EX; Digital display
	E5								24V DC; 3-wire 4-20mA / Pulse output; EX; Digital display
	M								220Vac; 4-20mA output; EX; Digital display
	FE								FE: Fluidwell E series converter
	FF								FF: Fluidwell F series converter
Converter Type	Notice:								1) Modbus RS485 is optional for E2, E3, E4, E5 and M type 2) Dual Power (24VDC + Battery) is optional for E2, E3, E4, E5, M
		10							±1.0% of Rate
		5							±0.5% of Rate
Accuracy		2							±0.2% of Rate
			S						Standard Range
Flow Range			E						Extended Range
				S4					SS304
				S6					SS316
Body Material				PL					Plastic (DN15-DN50)
					Cr				2Cr13
Rotor Material					CD				CD4MCu
						BT			Exd II BT6
Explosion Proof						NA			No explosion proof
							THM		Male thread; Available from DN4 ... DN50
							THF		Female thread; Available from DN4 ... DN50
							WAF		Wafer connection
							DXX		D16: DIN PN16 flange; D25: DIN PN25...
							AXX		A15: ANSI 150# flange; A30: ANSI 300#...
Connection							JXX		J10: JIS 10K flange; J20: JIS 20K...
							T1		-20...+80 °C
							T2		-20...+120 °C
Temperature							T3		-20...+150 °C

Sanitary Liquid Turbine Flow Meter DWS



Technical Data

DN4-DN100;

Pressure resistant to 10 bar;

Communication: Modbus RS485; HART.

Description

The sanitary liquid turbine flow meter is specifically designed for measurement of food liquids like milk, cream, juice of various fruits, pharma liquids etc. It is available with compact or remote version of transmitter can be installed either horizontally or vertically with a variety of optional end-fittings to meet your requirements.

Model Selection

Model	DWS							Description
Diameter	XXX							DN4-DN200
	N1							24V DC; Pulse output; No display
	N2							24V DC; Pulse output;No display; Ex
	A							24V DC; 4-20 mA output; No display; Ex
	E1							Battery power supply; No output; Ex; Digital display
	E2							24V DC; 2-wire 4-20mA output; Ex; Digital display
	E3							24V DC; Pulse output; Ex; display
	E4							24V DC; 0-20mA output; EX;Digital display
	E5							24V DC; 3-wire 4-20mA / Pulse output; EX; Digital display
	M							110-240V AC; 4-20mA output; EX; Digital display
	FE							Fluidwell E series converter
	FF							Fluidwell F series converter
	Converter Type	Notice:						
Accuracy		10						±1.0% of Rate
		5						±0.5% of Rate
		2						±0.2% of Rate
Flow Range		S						Standard Range
		E						Extended Range
Body Material			S4					SS304
			S6					SS316
Rotor Material			Cr					2Cr13
			CD					CD4MCu
Explosion Proof					BT			Exd II BT6
					NA			No explosion proof
Connection						TRC		Tri-clamp for sanitary connection
Temperature							T1	-20...+80 °C
							T2	-20...+120 °C
							T3	-20...+150 °C



Mini Turbine Flow Meter NUER



Specification

55*40*47 mm dimension;

About 300g;

NSF, CE authentication;

Coffee machine application; HART.

Description

Mini flow meter is based on turbine theory and designed for measuring micro-flow. This meter has extremely high accuracy especially under the condition of high temperature and high pressure. The Electronic pulse transmitter is also integrated in this min flow meter. It can maintain the 1% accuracy and 0.2% repeatability. Because of smart structure design, no debris can store in the working process and it's clear after work.

Model Selection

Items	Diameter	Range	K-Factor
	mm	(L/min)	(ML/imp)
	1.15	0.01-1.86	0.5
	1.3	3.06-108	0.6
	1.5	0.045-2.08	0.67
	2	0.085-2.32	1.02
	2.5	0.12-2.4	1.44
	3.7	0.15-3.0	2.28
Pressure	Maximum 20.0bar		
Temperature	-10°C to 100°C		
Accuracy Level	±2%		
Repeatability Accuracy	±0.25%		
Connection	G1/4 female thread		
	(ordered to meet need from customers)		
Material Turbine	Shell: Green Brass(lead-free brass)		
	Bearing: INO*18/8(1.4305) stainless steel		
	PVDF (polyvinylidene fluoride)		
	Magnets: SrFeO ceramics		

