

Turbine flow meter

Feature

- turbine flow meters have the features: high accuracy, good repeatability, convenient installation/maintenance, simple structure etc.
- It can be measured: hot water, purified water, water for injection, vegetable oil, and some liquid without impurities.
- Liquid flows through the turbine housing causing an internal rotor to spin. As the rotor spins, an electrical signal is generated in the pickup coil. This signal is converted into engineering units (liters, cubic meters, gallons etc.) on the local display where is applicable. Optional accessory modules can be used to export the signal to other equipment.

Technical details

Nominal Diameter	4mm-200mm
Measuring medium	liquid
Repeatability	±0.2%
Accuracy	±1%, ±0.5%
Housing	Standard - 304 Stainless Steel Optional - 316 Stainless Steel
Bearings and Shaft	Tungsten Carbide
Rotor	Standard - 2Cr13 Stainless Steel (Optional Alloy CD4MCu)
Retaining Rings	316 Stainless Steel
Output signal	4-20mA, pulsing signal, outwith signal.
Working Temperature	-20°C to +110°C
Pressure	86 to 106 Kpa
Relative Humidity	5% to 90%
Power Supply	24VDC, Integral 3.2V Lithium Battery
Process connection	Sanitary Tri-Clamp, flanged, thread(Choice)
Unit	M3/h, L/h, L/min, UK Gal/min, US Gal/min, US Gal/h, KPa, Pa, PSI



Measurable Flow Rate Range and Pressure Level:

Measurable Flow Range and Pressure Rating

Nominal Diameter		Standard Flow Range (SFR)	Extended Flow Range (EFR)	Standard Pressure Rating	Customized Pressure Rating
(mm)	(in.)	(m ³ /h)	(m ³ /h)	(MPa)	(MPa) - Flange Fitting
4	0.15	0.04 to 0.25	0.04 to 0.4	Thread: 6.3	12, 16, 25
6	0.25	0.1 to 0.6	0.06 to 0.6	Thread: 6.3	12, 16, 25
10	0.4	0.2 to 1.2	0.15 to 1.5	Thread: 6.3	12, 16, 25
15	0.5	0.6 to 6	0.4 to 8	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
20	0.75	0.8 to 8	0.45 to 9	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
25	1	1 to 10	0.5 to 10	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
32	1.25	1.5 to 15	0.8 to 15	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
40	1.5	2 to 20	1 to 30	Thread: 6.3; Flange: 2.5	4.0, 6.3, 12, 16, 25
50	2	4 to 40	2 to 40	Flange: 2.5	4.0, 6.3, 12, 16, 25
65	2.5	7 to 70	4 to 70	Flange: 2.5	4.0, 6.3, 12, 16, 25
80	3	10 to 100	5 to 100	Flange: 2.5	4.0, 6.3, 12, 16, 25
100	4	20 to 200	10 to 200	Flange: 1.6	4.0, 6.3, 12, 16, 25
125	5	25 to 250	13 to 250	Flange: 1.6	2.5, 4.0, 6.3, 12, 16
150	6	30 to 300	15 to 300	Flange: 1.6	2.5, 4.0, 6.3, 12, 16
200	8	80 to 800	40 to 800	Flange: 1.6	2.5, 4.0, 6.3, 12, 16

Model Selection Catalog

	LWGY□	□□□	□	□	□	Description
Type	LWGYA					Flow sensor pulse output three-wire system, +12V power supply;
	LWGYB					Local display, powered by 3.6V battery;
	LWGYC					Local display with 4~20mA or pulse output, powered by 24V;
	LWGYD					Flow transmitter 4~20mA output, powered by , 24V;
公称通径 Nominal drift diameter	4					Normal flow range m3/h
	6					
	10					
	15					
	20					
	25					
	32					
	40					
	50					
	65					
	80					
	100					
	125					
150						
200						
Explosion protection						Not marked, without explosion protection
			B			Explosion protection type
Precision class				A		Precision: Class 0.5
					B	Precision: Class 1.0
Turbine type					A	Normal flow range

Note:

Sensors with pipe diameter of DN4~DN40 are of thread or Sanitary clamp connections with maximum operating pressure of 6.3Mpa.

Sensors with pipe diameter of DN50(Sanitary clamp connection)~DN200 are of flange connections with maximum operating pressure of 2.5Mpa.

Sensors with pipe diameter of DN4~DN10 are provided with front and rear straight pipe sections and filters.

Please specify when placing an order if flange connections are required for pipe diameter of DN15~DN40.

Please specify when placing an order for high pressure type and special requirements.